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UNITED STATES DEPARTMENT OF AGRICULTURE

LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE 1926

MISCELLANEOUS CIRCULAR No. 73

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UNITED STATES DEPARTMENT OF AGRICULTURE

MISCELLANEOUS CIRCULAR No. 73

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LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE

1926

For earlier, see no. 45
For later, see M.P. no. 5

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KEY TO ABBREVIATIONS

Acct., Accounts, Accountant.
Activ., Activities.
Admin., Administration, Administrative, Administrator.
Agr., Agricultural, Agriculturist.
Agron., Agronomist.
Agt., Agent.
An., Animal.
Apicult., Apicultural, Apiculturist.
Assoc., Associate, Association.
Asst., Assistant.
Atty., Attorney.
Aud., Auditor, Auditing.
Bact., Bacteriology, Bacteriological, Bacteriologist.
Bibl., Bibliography, Bibliographical, Bibliographer.
Biochem., Biochemical, Biochemist.
Biol., Biological, Biologist.
Biophys., Biophysical, Biophysicist.
Bot., Botany, Botanical, Botanist.
Bur., Bureau.
Bus., Business.
Chem., Chemistry, Chemical, Chemist.
Co., County.
Coll., College.
Collab., Collaborator.
Comn., Commission.
Comr., Commissioner.
Const., Construction.
Consult., Consulting.
Coop., Cooperation, Cooperative, Cooperator.
Cytol., Cytological, Cytologist.
Dem., Demonstration.
Dendrol., Dendrologist.
Dep., Deputy.
Dept., Department.
Dir., Director.
Dist., District.
Div., Division.
Drain., Drainage.
Ecol., Ecologist.
Econ., Economic, Economics, Economist.
Ed., Editorial, Editor.
Engr., Engineer, Engineering.
Ent., Entomology, Entomological, Entomologist.
Equip., Equipment.
Erad., Eradication.
Exam., Examiner.
Exec., Executive.
Exp., Experiment, Experimental.
Expl., Explorer.
Ext., Extension.
Fert., Fertilizers.
For., Forest, Forestry, Forester.
Forecr., Forecaster.
Geol., Geologist, Geological.
Hdqrs., Headquarters.
Hort., Horticulture, Horticultural, Horticulturist.
Husb., Husbandry, Husbandman.
Hwy., Highway.
Illustr., Illustrator.
Ind., Industry.
Insp., Inspection, Inspector.
Inv., Investigations, Investigator.
Irrig., Irrigation.
Jr., Junior.
Lab., Laboratory, Laboratorian.
Ldr., Leader.
Libr., Library, Librarian.
Manf., Manufacturing.
Mech., Mechanic, Mechanical.
Med., Medical.
Met., Meteorology, Meteorological, Meterologist.
Mgr., Manager.
Mgt., Management.
Mkt., Market, Marketing.
Microan., Microanalyst.
Micros., Microscopist.
Misc., Miscellaneous.
Mycol., Mycologist.
Natl., National.
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Pharmacol., Pharmacologist.
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Pl., Plant, Planting.
Pomol., Pomological, Pomologist.
Pred., Predatory.
Prin., Principal.
Prod., Production, Products.
Prop., Propagation, Propagating, Propagator.
Pubs., Publications.
Quar., Quarantine.
Reserv., Reservation, Reservations.
Sci., Scientific, Scientist.
Secy., Secretary.
Silv., Silviculturist.
Sociol., Sociology.
Spec., Specialist.
Sr., Senior.
Sta., Station.
Stat., Statistics, Statistical, Statistician.
Substa., Substation.
Supt., Superintendent.
Supvr., Supervisor.
Surv., Survey, Surveyor.
Tech., Technology, Technologist.
Transp., Transportation.
Univ., University.
Util., Utilization.
Vet., Veterinary, Veterinarian.
Wareh., Warehouse, Warehousing.
Zool., Zoology, Zoologist.

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W. T. Lathrop, *Assoc. Met.*

Nebraska—Lincoln:
T. A. Blair, A. B., *Met.*

Nevada—Reno:
H. F. Alps, B. S., *Assoc. Met.*

New England—Boston:
G. A. Loveland, B. S., M. A., LL. B., *Met.*

New Hampshire—See New England.

New Jersey—Trenton:
G. H. Noyes, A. B., *Assoc. Met.*

New Mexico—Santa Fe:
C. F. Linney, B. L., *Assoc. Met.*

New York—Ithaca:
W. M. Wilson, M. D., *Met.*

North Carolina—Raleigh:
L. A. Denson, *Assoc. Met.*

North Dakota—Bismarck:
O. W. Roberts, *Assoc. Met.*

Ohio—Columbus:
W. H. Alexander, *Met.*

Oklahoma—Oklahoma City:
J. P. Slaughter, *Assoc. Met.*

Oregon—Portland:
E. L. Wells, *Met.*

Pennsylvania—Philadelphia:
G. S. Bliss, *Met.*

Porto Rico—San Juan:
O. L. Fassig, B. S., Ph. D., *Met.*

Rhode Island—See New England.

South Carolina—Columbia.
R. H. Sullivan, *Assoc. Met.*

South Dakota—Huron:
M. E. Blystone, A. B., *Assoc. Met.*

Tennessee—Nashville:
E. P. Jones, *Assoc. Met.*

Texas—Houston:
L. H. Daingerfield, Ph. B., *Met.*

Utah—Salt Lake City:
J. C. Alter, *Assoc. Met.*

Vermont—See New England.

Virginia—Richmond:
E. A. Evans, *Assoc. Met.*

Washington—Seattle:
M. B. Summers, *Met.*

West Virginia—Parkersburg:
H. C. Howe, *Assoc. Met.*

Wisconsin—Milwaukee:
W. P. Stewart, *Assoc. Met.*

Wyoming—Cheyenne:
G. W. Pitman, B. of Ped., *Assoc. Met.*

COMMERCIAL AIRWAYS SERVICE

V. E. Jakl, *Assoc. Met.*, Chicago, Ill.

FRUIT FROST SERVICE

F. D. Young, *Met.*, San Francisco, Calif.

FIRE WEATHER WARNING SERVICE[1]

Oregon—Portland:
C. I. Dague, *Asst. Met.*

Washington—Seattle:
G. W. Alexander, *Asst. Met.*

FRUIT SPRAY AND HARVEST WEATHER WORK

New York—Ithaca:
J. C. Fisher, *Asst. Met.*

BUREAU OF ANIMAL INDUSTRY

John R. Mohler, A. M., V. M. D., D. Sc., *Chief.*
Charles C. Carroll, A. M., *Admin. Off., Asst. to chief.*
John R. Cohran, *Sr. Admin., Chief Clerk.*
Dallas S. Burch, B. S. A., *Sr. Admin. Asst., Ed.*
Harry Goding, LL. B., *Admin. Off., Admin. Asst.*
R. S. Allen, *Sr. Clerk, Asst. in Exhibits.*
E. C. Schroeder, M. D. V., *Sr. Vet., Supt. of Exp. Sta. (Bethesda, Md.).*

FIELD INSPECTION DIVISION

A. W. Miller, D. V. S., *Sr. Vet., Chief.*
G. W. Pope, D. V. S., *Vet., Asst. Chief.*
W. P. Ellenberger, D. V. S., *Assoc. Vet., Asst. Chief.*
A. J. Raub, *Asst. in Livestock Transp. Inv., Sr. Admin. Asst.*

Public Stockyards Inspection:

Alabama—Birmingham:
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*

California—Los Angeles:
G. T. Irons, D. V. S., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*

Delaware—Wilmington:
T. J. Kean, D. V. M., M. D., *Assoc. Vet., Insp. in charge.*

District of Columbia—Washington:
H. K. Walter, V. M. D., *Assoc. Vet., Insp. in charge.*

Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet., Insp. in charge.*

Illinois—
Chicago:
H. Busman, M. D., V. S., *Vet. Insp. in charge.*
National Stock Yards:
C. F. Payne, V. S., *Assoc. Vet., Insp. in charge.*

Indiana—Indianapolis:
G. W. Butler, V. S., *Assoc. Vet., Insp. in charge.*

Iowa—Sioux City:
A. E. Behnke, D. V. S., *Assoc. Vet., Insp. in charge.*

Kansas—
Kansas City:
James Fleming, M. D., V. S., *Vet. Insp. in charge.*

Public Stockyards Inspection—Continued.

Kansas—Continued.
Wichita:
F. D. Ketchum, D. C. M., *Assoc. Vet., Insp. in charge.*

Kentucky—Louisville:
J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge.*

Louisiana—New Orleans:
G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*

Maryland—Baltimore:
H. A. Hedrick, D. V. S., *Assoc. Vet., Insp. in charge.*

Massachusetts—Boston:
E. A. Crossman, M. D. V., *Assoc. Vet. Insp. in charge.*

Michigan—Detroit:
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*

Minnesota—South St. Paul:
G. E. Totten, D. C. M., *Vet., Insp. in charge.*

Missouri—South St. Joseph:
B. J. Stockler, D. V. M., *Assoc. Vet., Insp. in charge.*

Nebraska—Omaha:
J. S. Jenison, D. V. M., *Vet., Insp. in charge.*

New Jersey—Jersey City:
E. H. Baumann, M. D. V., *Assoc. Vet., Insp. in charge.*

New York—
Albany:
G. H. Woolfolk, D. V. S., *Assoc. Vet., Insp. in charge.*
Buffalo:
B. P. Wende, V. S., *Vet., Insp. in charge.*
New York:
D. R. Gilles, M. D., V. S., *Vet., Insp. in charge.*

[1] Assignment from June to October.

Public Stockyards Inspection—Continued.
Ohio—
Cincinnati:
Frank Jelen, D. V. S., *Assoc. Vet., Insp. in charge.*
Cleveland:
H. H. George, D. V. S., *Assoc. Vet. Insp. in charge.*
Dayton:
W. O. Trone, D. V. S., *Assoc. Vet. Insp. in charge.*
Oregon—Portland:
M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*
Pennsylvania—
Lancaster:
H. S. Weber, M. D. V., *Asst. Vet. Insp. in charge.*
Pittsburgh:
C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge.*
South Dakota—Sioux Falls:
E. S. Dickey, Ph. C., D. V. S., *Assoc. Vet., Insp. in charge.*
Tennessee—
Chattanooga:
F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge.*
Memphis:
C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*
Nashville:
E. F. Cary, D. V. S., *Assoc. Vet., Insp. in charge.*
Texas—
Fort Worth:
H. L. Darby, D. V. S., *Assoc. Vet., Acting Insp. in charge.*
Houston:
C. L. Palmer, *Assoc. Vet., Insp. in charge.*
San Antonio:
Wm. Thompson, M. D. C., *Asst. Vet., Insp. in charge.*
Vermont—Canaan:
J. W. Harner, D. V. M., *Asst. Vet., Insp. in charge.*
Virginia—Richmond:
Henry Marshall, D. V. M., *Asst. Vet., Insp. in charge.*
Washington—Spokane:
Edward D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*
West Virginia—Wheeling:
R. F. Vermilya, D. M. C., *Asst. Vet., Insp. in charge.*
Wisconsin—Milwaukee:
A. V. Staub, D. V. M., *Assoc. Vet., Insp. in charge.*

International Inspection and Quarantine:
California—
Calexico:
J. C. Pace, D. V. S., *Jr. Vet., Insp. in charge.*

International Inspection and Quarantine—Continued.
California—Continued.
San Diego:
J. E. Cloud, D. V. S., *Asst. Vet., Insp. in charge.*
San Francisco:
H. H. Hicks, M. D. V., *Assoc. Vet., Insp. in charge.*
England—London:
R. W. Tuck, D. V. S., *Vet., Insp. in charge.*
Louisiana—New Orleans:
G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
Maine—
Calais:
R. D. Hyde, D. V. M., *Asst. Vet., Insp. in charge.*
Houlton:
I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge.*
Maryland—Baltimore:
H. A. Hedrick, D. V. S., *Assoc. Vet., Insp. in charge.*
Massachusetts—Boston:
J. F. Ryder, D. V. S., *Assoc. Vet., Insp. in charge.*
Mexico—Mexico City:
S. O. Fladness, D. V. M., *Vet., Insp. in charge.*
Michigan—
Detroit:
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*
Port Huron:
C. H. Canfield, D. V. M., *Asst. Vet., Insp. in charge.*
Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*
New Jersey—Athenia:
E. T. Davidson, D. V. M., *Assoc. Vet., Insp. in charge.*
New York—
Albany:
G. H. Woolfolk, D. V. S., *Assoc. Vet., Insp. in charge.*
Buffalo:
B. P. Wende, D. V. S., *Vet., Insp. in charge.*
New York:
A. E. Rishel, D. V. S., *Assoc. Vet., Insp. in charge.*
Ogdensburg:
C. O. Benson, D. V. S., *Asst. Vet., Insp. in charge.*
Rouses Point:
D. G. Shumway, V. M. D., *Asst. Vet., Insp. in charge.*
Watertown:
F. J. Loomis, D. V. M., *Vet., Insp. in charge.*
North Dakota—Bismarck:
H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge.*

International Inspection and Quarantine—Continued.

Oklahoma—Oklahoma City:
Jens Madsen, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*

Oregon—Portland:
M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*

Porto Rico—Rio Piedras:
Juan Veras Catala, V. S., *Vet., Insp. in charge.*

Texas—
El Paso:
T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*
Houston:
C. F. Palmer, D. V. S., *Assoc. Vet., Insp. in charge.*
San Antonio:
Wm. Thompson, M. D. C., *Asst. Vet., Insp. in charge.*

Vermont—Newport:
J. E. Spindler, V. M. D., *Asst. Vet., Insp. in charge.*

Virginia—Norfolk:
T. M. Owens, D. V. M., *Asst. Vet., Insp. in charge.*

Washington—
Seattle:
C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane:
E. D. Kennedy, D. V. S., *Asst. Vet., Insp. in charge.*

Scabies and Dourine Eradication:

California—Sacramento:
R. Snyder, M. D. C., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*

Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*

Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

Nebraska—Lincoln:
W. C. Herrold, V. S., *Assoc. Vet., Insp. in charge.*

New Mexico—Albuquerque:
F. L. Schneider, B. S., D. V. S., *Vet., Insp. in charge.*

North Dakota—Bismarck:
H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:
H. Grafke, D. V. S., *Assoc. Vet., Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Texas—Forth Worth:
H. L. Darby, D. V. S., *Assoc. Vet., Acting Insp. in charge.*

Scabies and Dourine Eradication—Contd.

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

Wyoming—Cheyenne:
J. T. Dallas, B. S. A., D. V. M., *Asst. Vet., Insp. in charge.*

TUBERCULOSIS ERADICATION DIVISION

J. A. Kiernan, V. S., *Sr. Vet., Chief.*
A. E. Wight, M. D. V., *Vet., Asst. Chief.*

FIELD STATIONS (work conducted in coop. with States):

Alabama—Birmingham:
R. E. Jackson, D. V. M., *Assoc. Vet.*

Arkansas—Little Rock:
H. L. Fry, D. V. M., *Asst. Vet.*

California—Sacramento:
Rudolph Snyder, M. D. C., *Assoc. Vet.*

Colorado—Denver:
W. E. Howe, D. V. S., *Assoc. Vet.*

Connecticut—Hartford:
R. L. Smith, D. V. S., *Assoc. Vet.*

Florida—Tallahassee:
J. G. Fish, D. V. S., *Asst. Vet.*

Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet.*

Idaho—Boise:
W. A. Sullivan, D. V. M., *Asst. Vet.*

Illinois—Chicago:
J. J. Lintner, M. D. C., *Vet.*

Indiana—Indianapolis:
J. E. Gibson, V. S., *Assoc. Vet.*

Iowa—Des Moines:
J. A. Barger, D. V. S., *Vet.*

Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet.*

Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet.*

Louisiana—New Orleans:
G. F. Cole, V. M. D., *Assoc. Vet.*

Maine—Augusta:
G. R. Caldwell, V. S., *Assoc. Vet.*

Maryland—Baltimore:
E. B. Simonds, D. V. M., *Asst. Vet.*

Massachusetts—Boston:
E. A. Crossman, D. V. M., *Assoc. Vet.*

Michigan—Lansing:
T. S. Rich, D. V. M., *Vet.*

Minnesota—St. Paul:
W. J. Fretz, D. V. S., *Vet.*

Mississippi—Jackson:
Wilbur McPherson, D. V. M., *Assoc. Vet.*

Missouri—Jefferson City:
Ralph Graham, D. V. M., *Vet. Insp.*

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet.*

Nebraska—Lincoln:
W C. Herrold, V. S., *Assoc. Vet.*

New Jersey—Trenton:
W. G. Middleton, D. V. M., *Asst. Vet.*

FIELD STATIONS—Continued.
New Mexico—Albuquerque:
F. L. Schneider, B. S., D. V. S., *Vet.*
New York—Albany:
H. B. Leonard, D. V. M., *Vet.*
North Carolina—Raleigh:
W. C. Dendinger, D. V. M., *Assoc. Vet.*
North Dakota—Bismarck:
H. H. Cohenour, D. V. M., *Assoc. Vet.*
Ohio—Columbus:
A. J. DeFosset, D. V. M., *Assoc. Vet.*
Oklahoma—Oklahoma City:
H. Grafke, D. V. S., *Assoc. Vet.*
Oregon—Portland:
S. B. Foster, D. V. S., *Assoc. Vet.*
Pennsylvania—Harrisburg:
J. B. Reidy, *Assoc. Vet.*
South Carolina—Columbia:
W. K. Lewis, D. V. S., *Vet. Insp.*
South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet.*
Tennessee—Nashville:
H. M. O'Rear, D. V. M., *Asst. Vet.*
Texas—Fort Worth:
H. L. Darby, D. V. S., *Assoc. Vet.*
Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet.*
Vermont—Montpelier:
L. H. Adams, V. M. D., *Assoc. Vet.*
Virginia—Richmond:
R. E. Brookbank, D. V. S., *Asst. Vet.*
Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet.*
West Virginia—Charleston:
H. M. Newton, D. V. M., *Asst. Vet.*
Wisconsin—Madison:
James S. Healy, M. D., *Vet.*
Wyoming—Cheyenne:
J. T. Dallas, B. S. A., D. V. M., *Asst. Vet.*

TICK ERADICATION DIVISION

R. A. Ramsay, D. V. S., B. S. A., *Vet., Chief.*
W. M. MacKellar, V. S., *Vet., Asst. Chief.*
FIELD STATIONS (work conducted in coop. with States):
Alabama—Birmingham:
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*
Arkansas—Little Rock:
W. A. McDonald, D. V. M., *Assoc. Vet., Insp. in charge.*
Florida—Jacksonville:
S. J. Horne, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—Baton Rouge:
C. J. Becker, D. V. M., Assoc. Vet., *Acting Insp. in charge.*
Mississippi—Jackson:
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*
North Carolina—Washington:
Seaborn H. Still, D. V. S., *Asst. Vet., Acting Insp. in charge.*
Oklahoma—Oklahoma City:
Harry Grafke, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
South Carolina—Columbia:
W. K. Lewis, M. D. V., *Vet. Insp., in charge.*
Texas—Fort Worth:
H. L. Darby, D. V. S., *Assoc. Vet., Acting Insp. in charge.*

ANIMAL HUSBANDRY DIVISION

E. W. Sheets, B. S. A., M. S., *Sr. An. Husb., Chief.*

Beef Cattle:
W. H. Black, B. S., *An. Husb., in charge.*
A. T. Semple, B. S., *Assoc. An. Husb.*
E. W. McComas, B. S., *Asst. An. Husb.*
William Jackson, B. S. A., *Asst. An. Husb.*

Swine:
E. Z. Russell, *An. Husb., in charge.*
S. S. Buckley, D. V. S., M. S., *Assoc. An. Husb.*
O. G. Hankins, B. S., *Assoc. An. Husb.*
J. H. Zeller, B. S., *Asst. An. Husb.*

Sheep:
D. A. Spencer, B. S., *An. Husb., in charge.*
J. I. Hardy, M. S., Ph. D., *An. Husb.*
C. G. Potts, B. S., *Assoc. An. Husb.*
M. J. Brandon, A. B., *Jr. An. Husb.*

Horses and Mules:
J. O. Williams, B. S A., *An. Husb., in charge.*
S. R. Speelman, B. S. A., *Asst. An. Husb.*

Poultry:
M. A. Jull, B. S. A., M. Sc., Ph. D., *Poultry Husb., in charge.*
A R. Lee, B. S., *Assoc. Poultry Husb.*
J. P. Quinn, *Chief Sci. Aid.*
S. Haynes, *Chief Sci. Asst.*

Animal Genetics:
H. C. McPhee, Sc. D., *An Husb., in charge.*
O. N. Eaton, M. S., *Asst. An husb.*

Nutrition:
Paul E. Howe, M. A., Ph. D., *Biol. Chem., in charge.*
N. R. Ellis, M. S., *Assoc. Chem.*
H. G. Barott, E. E., *Assoc. Phys.*
W. B. Emerson, M. E., *Assoc. Biophys.*
S. J. Dahl, M. S., *Jr. Chem.*
Edward A. Kane, B. S., M. S., *Chem.*
John W. Knowlton, *Jr. Sci. Aid.*

Meat:
K. F. Warner, A. B., M. S., *Assoc. An. Husb., in charge.*

Extension:
C. D. Lowe, D. V. M., *Ext. An. Husb.* (in coop. with Off. of Coop. Ext. Work).

Animal Husbandry Experiment Farm, Beltsville, Md. (beef cattle, swine, sheep, poultry, and horse inv.):
B. F. Brandon, B. S. A., *Assoc. An. Husb., in charge.*
FIELD STATIONS:
Arizona—Glendale (Poultry Exp. Sta.):
L. J. Pedigo, *Acting in charge.*

Animal Husbandry Experiment Farm—Con.
FIELD STATIONS—Continued.
Arkansas—Jonesboro (beef cattle inv., in coop. with Ark. Exp. Sta. and First Dist. Agr. School):
A. C. Cook, B. S., *Agt. in An. Husb. (Coop.), in charge.*
Connecticut—Storrs (horse inv., in coop. with Storrs Exp. Sta., Bur. of Pl. Ind., and Bur. Agrl. Econ.):
R. E. Simms, *Agt. in An. Husb. (Coop.), in charge.*
Idaho—Dubois (Sheep Exp. Sta.):
W. A. Denecke, B. S., *Assoc. An. Husb., in charge.*
J. M. Cooper, B. S., *Jr. An. Husb.*
Louisiana—Jeanerette (Iberia Livestock Exp. Farm; beef cattle, swine, and mule inv., in coop., with La. Exp. Sta.):
W. T. Cobb, *Agt. in An. Husb., Acting in charge.*
Mississippi—McNeill (Coastal Plains Exp. Sta.; beef cattle, swine, and sheep inv., in coop. with Miss. Exp. Sta.):
S. W. Greene, B. A., *Assoc. An. Husb., in charge.*
Missouri—Columbia (swine inv., in coop. with Mo. Exp. Sta.):
F. F. McKenzie, B. S. A., M. A., *Agt. in An. Husb., in charge.*
Grain Valley (beef cattle inv., in coop. with Mo. Exp. Sta.):
C. S. Maddox, B. S., *Jr. An. Husb. (Coop.), in charge.*
Montana—
Havre (beef cattle inv., in coop. with Mont. Exp. Sta.):
George W. Morgan, B. S. (Bur. of Pl. Ind.), *in charge.*
Huntley (swine inv., in coop. with Mont. Exp. Sta.):
Dan Hansen (Bur. of Pl. Ind.), *in charge.*
Miles City (beef cattle, sheep, swine, horse, and poultry inv., in coop. with Mont. Exp. Sta.):
J. R. Quesenberry, B. S. A., M. S., *Assoc. An. Husb., in charge.*
E. B. Krantz, B. S. A., M. S., *Asst. An. Husb.*
A. L. Baker, B. S., *Asst. An. Husb.*
South Dakota—
Ardmore (beef cattle and swine inv.):
F. L. Kelso, B. S. (Bur. of Pl. Ind.), *in charge.*
Newell (Belle Fourche Exp. Farm; swine and sheep inv.):
Beyer Aune, M. S., *Jr. An. Husb., in charge.*
Spearfish (beef cattle inv. in coop. with Exp. Stations in Northern Great Plains area):
M. B. Johnson, *Agt. in An. Husb., in charge.*

Animal Husbandry Experiment Farm—Con.
FIELD STATIONS—Continued.
Texas—
Benjamin (beef cattle inv., in coop. with Western Range States):
L. P. Jones, B. S., *Agt. in An. Husb., in charge.*
Sonora (beef cattle inv., in coop. with Texas Exp. Sta. and Bur. Agrl. Econ.):
J. N. Tate, *Collaborator, Bur. Agrl. Econ., in charge.*
Stamford (beef cattle inv., in coop. with Western Range States):
V. V. Parr, B. S., *Assoc. An. Husb., in charge.*
Vermont—Middlebury (Morgan Horse Farm; horse, sheep, and beef cattle inv.):
H. H. Reese, B. S., *Assoc. An. Husb., in charge.*
J. A. Stoehr, B. S., *Jr. An. Husb.*
West Virginia—Lewisburg (beef cattle inv., in coop. with W. Va. Exp. Sta.):
R. H. Tuckwiller, B. S., *Agt. in An. Husb., in charge.*
Wisconsin—Madison (in coop. with Wis. Exp. Sta.):
W. F. Dove, M. S., *Agt. in An. Husb.* (beef cattle).

BIOCHEMIC DIVISION

M. Dorset, B. S., M. D., D. V. M., *Sr. Biochem., Chief.*

James A. Emery, M. D., *Biochem., Asst. Chief.*

Hog-Cholera Investigations:
Chief of Div. in charge.
C. N. McBryde, M. S., M. D., Ph. D., *Assoc. Bact.*
F. W. Tilley, A. B., M. D., *Assoc. Bact.*
R. R. Henley, M. S., *Assoc. Biochem.*
Henry E. Moskey, V. M. D., *Asst. Vet.*
FIELD HEADQUARTERS—
Iowa—Ames:
W. B. Niles, D. V. M., *Assoc. Vet., in charge.*

Biochemical Investigations of Meats:
Ralph Hoagland, B. Agr., *Biochem., in charge.*
Wilmer C. Powick, B. A., *Assoc. Biochem.*
George G. Snider, A. B., *Sr. Sci. Aid.*
Warren L. Briggs, *Jr. Sci. Aid.*

Dip and Disinfectant Investigations:
Robt. M. Chapin, B. A., *Biochem., in charge.*
Jacob M. Schaffer, M. S., *Asst. Chem.*

Tuberculin and Mallein Production:
Asst. Chief of Div. in charge.
Albert M. West, B. S., *Asst. Bact.*
Percy W. LeDuc, A. B., *Jr. Chem.*
Angus D. MacDonald, D. V. M., *Jr. Vet.*

Insecticide and Fungicide Work (for Insecticide and Fungicide Board):
Asst. Chief of Div. in charge.

Insecticide and Fungicide Work—Continued.
Horace H. Custis, M. A., Ph. D., *Assoc. Chem.*
James Norman Taylor, M. S., *Asst. Chem.*
Frank A. Spurr, B. S., *Jr. Chem.*

PATHOLOGICAL DIVISION

John S. Buckley, D. V. S., *Sr. Path., Chief.*
Henry J. Washburn, D. V. M., *Asst. Chief.*
General Pathology:
Robt. J. Formad, V. M. D., M. D., *Assoc. Path.*
Gilbert T. Creech, D. V. S., *Assoc. Vet.*
Branch Pathological Laboratories—
Colorado—Denver:
George W. Stiles, M. D., Ph. D., *Assoc. Bact. in charge.*
Maude E. Starcher, *Under Sci. Helper, Lab. Aid in Bact.*
Illinois—Chicago:
L. Enos Day, V. S., *Assoc. Vet., in charge.*
Nebraska—Omaha:
G. Byron Morse, M. D., Ph. D., V. S., *Asst. Bact. in charge.*
Diseases of Animals:
Henry J. Washburn, D. V. M., *Bact., Tuberculosis Inv.*
John M. Buck, D. V. M., *Assoc. Bact., Abortion Inv.*
Warren B. Shook, V. M. D., *Asst. Vet., Tuberculosis Inv.*
Hubert Bunyea, D. V. S., A. B., *Assoc. Vet., Poultry Diseases Inv.*
L. T. Giltner, V. M. D., M. S. Assoc. Vet., *Forage Poisoning and Misc. Diseases.*
Howard E. Smith, D. V. M., *Assoc. Vet., Abortion Inv.*
Stock Poisoning by Plants:
C. Dwight Marsh, Ph. D., *Assoc. Physiol.*
Arthur B. Clawson, B. A., *Assoc. Physiol.*
Jas. F. Couch, A. M., *Assoc. Chem.*
Glenwood C. Roe, B. A., *Jr. Physiol.*
Lee C. Manning, *Under Sci. Helper.*
Serums, Viruses, Toxins:
William S. Gochenour, V. M. D., *Assoc. Vet., Bact. Inv.*
Harry W. Schoening, V. M. D., *Assoc. Vet., Serological Inv.*
William M. Mohler, D. V. M., *Jr. Vet., Serological Inv.*

DIVISION OF VIRUS-SERUM CONTROL

D. I. Skidmore, V. S., *Chief.*
R. E. Holm, D. V. M., *Asst. Chief.*
Field Stations and Substations:
California—
Stockton:
W. J. Stewart, M. D., D. V. M., *Insp. in charge.*
Berkeley (substa. of Stockton):
G. P. Rebold, D. V. M., *Insp.*
French Camp (substa. of Stockton, Calif.):
Colorado—Denver:
E. H. Carter, V. S., *Insp. in charge.*

Field Stations and Substations—Contd.
Georgia—Albany:
C. A. Klein, D. V. M., *Insp. in charge.*
Illinois—
Aurora (substa. of East St. Louis, Mo.):
W. D. Livermore, D. V. M., *Insp.*
East St. Louis:
J. W. Joss, D. V. M., *Insp. in charge.*
Whitehall (substa. of East. St. Louis, Ill.):
W. T. Bollmeier, D. V. M., *Insp.*
Indiana—
Greenfield (substa. of Indianapolis, Ind.):
M. E. Schwab, Ph. B., D. V. M., *Insp.*
Indianapolis:
J. D. Stillwell, D. V. M., *Insp. in charge.*
Noblesville (substa. of Indianapolis, Ind.):
O. C. Mayer, M. D. V., *Insp.*
Thorntown (substa. of Indianapolis, Ind.):
G. D. Ashley, D. V. M., *Insp.*
Zionsville (substa. of Indianapolis, Ind.):
Robert Thumann, D. V. M., *Insp.*
Iowa—
Des Moines (substa. of Fort Dodge, Iowa):
B. McCormack, D. V. M., *Insp.*
Fort Dodge:
D. G. Tepfer, D. V. M., *Insp. in charge.*
Muscatine (substa. of Ottumwa, Iowa):
C. P. Luneen, D. V. M., *Insp.*
Ottumwa:
E. E. Lollar, D. V. M., *Insp. in charge.*
Sioux City:
L. B. Vermillion, D. V. M., *Insp. in charge.*
Kansas—
Hutchinson (substa. of Wichita, Kans.):
G. C. Gulick, D. V. M., *Insp.*
Kansas City:
F. A. Imler, D. V. M., *Insp. in charge.*
O. E. Herl, D. V. M., *Asst. to Insp. in charge.*
Lathrop (substa. of Kansas City, Kans.):
J. C. Bolton, D. V. M., *Insp.*
Topeka:
C. B. Clement, D. V. S., *Insp. in charge.*
Wichita:
F. N. Elwell, D. V. M., *Insp. in charge.*
Missouri—
St. Joseph:
J. S. Clark, D. V. M., *Insp. in charge.*

FIELD STATIONS AND SUBSTATIONS—Contd.
Missouri—Continued.
South St. Joseph (substa. of St. Joseph, Mo.):
L. R. Rohrer, D. V. S., *Insp.*
West Plains:
J. F. Park, D. V. M., *Insp. in charge.*
Nebraska—
Franklin (substa. of Kansas City, Kans.):
A. L. Faunce, M. D. C., *Insp.*
Grand Island (substa. of Omaha, Nebr.):
C. D. Stein, D. V. M., *Insp.*
Hooper (substa. of Omaha, Nebr.):
J. H. Cock, D. V. S., *Insp.*
Omaha:
H. H. Day, D. V. M., *Insp. in charge.*
Ralston (substa. of Omaha, Nebr.):
W. C. Hamilton, Jr., D. V. M., *Insp.*
Superior (substa. of Kansas City, Kans.):
Walter Boyce, D. V. M., *Insp.*
New York—Pearl River:
J. P. O'Leary, M. D. V., *Insp. in charge.*
Ohio—
Columbus (substa. of Indianapolis, Ind.):
R. N. Birdwhistell, D. V. M., *Insp.*
Fostoria (substa. of Indianapolis, Ind.):
H. C. Berger, D. V. M., *Insp.*
Oklahoma—Oklahoma City:
E. A. Meyer, D. V. S., *Insp. in charge.*
South Dakota—Sioux Falls (substa. of Sioux City, Iowa):
F. D. Houston, D. V. M., *Insp.*
Texas—Forth Worth:
E. T. Marsh, D. V. M., *Insp. in charge.*

ZOOLOGICAL DIVISION

Maurice C. Hall, B. S., A. M., Ph. D. D. V. M., *Sr. Zool., Chief.*
Parasites of Livestock:
Chief of div. in charge.
Emmit W. Price, D. V. M., *Assoc. Zool.*
Benjamin Schwartz, A. M., Ph. D., *Assoc. Zool.*
Eloise B. Cram, M. S., Ph. D., *Assoc. Zool.*
J. E. Shillinger, D. V. M., *Assoc. Vet.*
FIELD STATIONS:
Georgia—Moultrie:
E. M. Nighbert, D. V. S., *Asst. Vet. (Internal parasites of swine).*
Illinois—Chicago:
H. B. Raffensperger, D. V. M., *Asst. Vet. (Internal parasites of swine).*
Kansas—Kansas City:
Marion Imes, D. V. M., M. S., *Vet. (External parasites).*
Mississippi—McNeill:
Cooper Curtice, D. V. M., M. D., *Assoc. Vet. (Internal parasites of sheep).*
Systematic Parasitology:
Albert Hassall, M. R. C. V. S., *Zool.*
Helen M. Meyers, A. B., *Asst. Sci. Aid.*

MEAT INSPECTION DIVISION

R. P. Steddom, V. S., *Sr. Vet. Chief.*
A. J. Pistor, D. V. S., *Vet., Asst. Chief.*
E. C. Joss, B. S., D. C. M., *Vet., Asst. Chief.*
Wm. H. Smith, jr., V. M. D., *Assoc. Vet., in charge of misc. work.*
F. W. Meyst, D. V. S., *Assoc. Vet., in charge of Label Section.*
Robert H. Kerr, B. S., *Chem., in charge of Meat Insp. Lab.*
FIELD STATIONS:
Alabama—
Birmingham:
W. H. Meadors, D. V. S., *Asst. Vet., Insp. in charge.*
Greenville:
A. W. Everett, *Sr. Lay Insp., in charge.*
Arizona—Phoenix:
A. J. Maloney, D. V. M., *Asst. Vet., Insp. in charge.*
Arkansas—
Fort Smith:
W. B. Nichols, *Prin. Lay Insp., in charge.*
Helena:
B. L. McCaslin, *Prin. Lay Insp., in charge.*
California—
Los Angeles:
G. T. Irons, D. V. S., *Assoc. Vet., Insp. in charge.*
San Diego:
Joel E. Cloud, V. S., *Asst. Vet., Insp. in charge.*
San Francisco:
H. H. Hicks, M. D. V., *Assoc. Vet., Insp. in charge.*
A. E. Graham, Ph. B., *Assoc. Chem., in charge of Lab.*
Colorado—
Denver:
T. A. Shipley, D. V. S., *Assoc. Vet., Insp. in charge.*
Pueblo:
B. F. Gooch, D. V. S., *Asst. Vet., Insp. in charge.*
Connecticut—
Bridgeport:
Fred Hern, *Prin. Lay Insp., in charge.*
Hartford: W. E. Jennings, *Prin. Lay Insp., in charge.*
New Haven:
S. A. Selby, D. V. S., *Asst. Vet., Insp. in charge.*
Delaware—Wilmington:
T. J. Kean, D. V. M., M. D., *Assoc. Vet., Insp. in charge.*
District of Columbia—Washington:
H. K. Walter, D. V. M., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Florida—Jacksonville:
E. F. Haven, D. V. S., *Asst. Vet., Insp. in charge.*

Georgia—
Atlanta:
E. N. Tierney, D. C. M., *Asst. Vet., Insp. in charge.*
Augusta:
J. E. Lovejoy, D. V. S., *Asst. Vet., Insp. in charge.*
Moultrie:
J. R. Aufente, D. V. S., *Asst. Vet., Insp. in charge.*

Idaho—
Boise:
A. J. Creely, D. V. M., *Asst. Vet., Insp. in charge.*
Lewiston:
F. G. Miller, D. V. M., *Asst. Vet., Insp. in charge.*
Moscow:
A. S. Martin, D. V. M., *Jr. Vet., Insp. in charge.*
Sandpoint:
H. C. Ingraham, D. V. M., *Asst. Vet., Insp. in charge.*

Illinois—
Alton:
James Johnston, V. S., M. D., *Asst. Vet., Insp. in charge.*
Cairo:
G. C. Pieper, D. V. M., *Asst. Vet., Insp. in charge.*
Chicago:
Herman Busman, V. S., M. D., *Vet., Insp. in charge.*
C. T. N. Marsh, *Assoc. Chem., in charge of Lab.*
Jacksonville:
J. Robinson, D. V. M., *Asst. Vet., Insp. in charge.*
National Stock Yards:
C. F. Payne, V. S., *Vet., Insp. in charge.*
Peoria:
A. N. Hughes, M. D. V., *Asst. Vet., Insp. in charge.*

Indiana—
Anderson:
H. J. Boyer, D. V. M., *Asst. Vet., Insp. in charge.*
Fort Wayne:
Joshue Miller, V. S., *Asst. Vet., Insp. in charge.*
Frankfort:
Charles Corson, D. V. M., *Asst. Vet., Insp. in charge.*
Indianapolis:
G. W. Butler, V. S., *Assoc. Vet., Insp. in charge.*
La Fayette:
C. H. Herrold, M. D. V., V. S., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Indiana—Continued.
Logansport:
C. H. Deisel, D. V. M., *Asst. Vet., Insp. in charge.*
Madison:
R. R. Newman, D. V. S., *Asst. Vet., Insp. in charge.*
Richmond:
C. O. Wagoner, V. S., *Asst. Vet., Insp. in charge.*
Terre Haute:
L. H. Allen, M. D. V., *Asst. Vet., Insp. in charge.*

Iowa—
Cedar Rapids:
A. M. Casper, M. D. C., *Asst. Vet., Insp. in charge.*
Davenport:
Peter A. Franzmann, D. V. M., *Asst. Vet., Insp. in charge.*
Des Moines:
C. W. Deming, D. V. M., *Asst Vet., Insp. in charge.*
Dubuque:
H. H. Dell, D. V. S., *Asst. Vet., Insp. in charge.*
Mason City:
C. L. Elliott, D. V. M., *Asst. Vet., Insp. in charge.*
Ottumwa:
F. T. Suit, D. V. M., *Asst. Vet., Insp. in charge.*
Sioux City:
A. E. Behnke, D. V. M., *Assoc. Vet., Insp. in charge.*
Waterloo:
J. E. Shelton, D. V. S., *Asst Vet., Insp. in charge.*

Kansas—
Arkansas City:
F. E. Haworth, V. M. D., *Asst. Vet., Insp. in charge.*
Kansas City:
James Fleming, V. S., M. D., *Vet., Insp. in charge.*
H. C. Kershner, *Assoc. Chem., in charge of Lab.*
Leavenworth:
C. F. Pinkham, D. V. S., *Asst. Vet., Insp. in charge.*
Pittsburg:
W. K. Howard, M. D. C., *Asst. Vet., Insp. in charge.*
Topeka:
F. S. Bingham, D. V. S., *Asst Vet., Insp. in charge.*
Wichita:
F. D. Ketchum, D. C. M., *Assoc. Vet., Insp. in charge.*

Kentucky—
Henderson:
R. H. Nutt, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Kentucky—Continued.
Louisville:
J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—
New Orleans:
G. F. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
Shreveport:
Levi Bryant, *Prin. Lay Insp., in charge.*
Maine—
Auburn:
L. K. Green, V. M. D., *Asst. Vet., Insp. in charge.*
Houlton:
I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge.*
Portland:
A. N. Smith, V. M. D., *Asst. Vet., Insp. in charge.*
Maryland—
Baltimore:
H. A. Hedrick, D. V. S., *Assoc. Vet., Insp. in charge.*
Cumberland:
J. C. Shafer, *Prin. Lay Insp.,* in *charge.*
Frederick:
W. F. Osborn, D. V. S., *Asst. Vet., Insp. in charge.*
Massachusetts—
Boston:
J. F. Ryder, D. V. S., *Assoc. Vet., Insp. in charge.*
Haverhill:
H .Q. Thompson, V. S., *Asst. Vet., Insp. in charge.*
Springfield:
H. E. Brown, M. D. V., *Asst. Vet., Insp. in charge.*
Worcester:
M. T. Perry, M. D. V., *Asst. Vet., Insp. in charge.*
Michigan—
Detroit:
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*
Ironwood:
E. J. Noll, *Prin. Lay Insp., in charge.*
Menominee:
O. A. Christianson, M. D. V., *Asst. Vet., Insp. in charge.*
Minnesota—
Albert Lea:
C. E. Schneider, D. V. S., *Asst. Vet., Insp. in charge.*
Austin:
E. W. Barthold, M. D. C., *Asst. Vet., Insp. in charge.*
Duluth:
Chester Miller, V. S., *Asst. Vet., Insp. in charge.*
Fergus Falls:
M. L. Davenport, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Minnesota—Continued.
South St. Paul:
G. E. Totten, D. C. M., *Vet., Insp. in charge.*
Winona:
L. A. Wilson, D. V. M., *Asst. Vet., Insp. in charge.*
Mississippi—
Natchez:
J. B. Harris, *Sr. Lay. Insp., Acting in charge.*
Vicksburg:
J. A. O'Brien, *Sr. Lay. Insp., Acting in charge.*
Missouri—
St. Louis:
T. B. Pote, D. V. S., *Assoc. Vet., Insp. in charge.*
C. H. Swanger, B. S., *Assoc. Chem., in charge of Lab.*
South St. Joseph:
B. J. Stockler, D. V. M., *Assoc. Vet., Insp. in charge.*
Montana—Butte:
Albert E. Evans, M. D. C., *Asst. Vet., Insp. in charge.*
Nebraska—
Nebraska City:
C. A. Kay, D. C. M., *Asst. Vet., Insp. in charge.*
Omaha:
J. S. Jenison, D. V. M., *Vet., Insp. in charge.*
E. A. Boyer, B. S., *Assoc. Chem., in charge of Lab.*
F. P. St. Clair, D. V. M., M. D., *Vet., Traveling Vet. Insp.*
Nevada—Reno:
L. C. Butterfield, D. C. M., *Assoc. Vet., Insp. in charge.*
New Hampshire—
Keene:
T. W. Carnachan, M. R. C. V. S., *Asst. Vet., Insp. in charge.*
Manchester:
W. F. Quigley, *Prin. Lay Insp., in charge.*
New Jersey—
Jersey City:
E. H. Baumann, V. M. D., *Assoc. Vet., Insp. in charge.*
Newark:
A. F. Martins, D. V. S., *Assoc. Vet., Insp. in charge.*
Paterson:
J. Huelsen, D. V. S., *Asst. Vet., Insp. in charge.*
New York—
Albany:
G. H. Woolfolk, D. V. S., *Assoc. Vet., Insp. in charge.*
Brooklyn:
Albert Long, M. D. V., *Assoc. Vet., Insp. in charge.*
Buffalo:
B. P. Wende, V. S., *Vet., Insp in charge.*

FIELD STATIONS—Continued.

New York—Continued.

New York:

D. R. Gillies, V. S., M. D., Vet., *Insp. in charge.*

W. F. Schroeder, B. S., *Assoc. Chem., in charge of Lab.*

Pearl River:

J. P. O'Leary, M. D. V., *Assoc. Vet., Insp. in charge.*

North Carolina—

Asheville:

Herbert Bryan, D. V. M., *Asst. Vet., Insp. in charge.*

Charlotte:

Jacob Vogel, *Prin. Lay Insp., in charge.*

Wilmington:

A. H. Carpenter, *Prin. Lay Insp., in charge.*

North Dakota—

Fargo:

J. T. Cullen, D. V. M., *Asst. Vet., Insp. in charge.*

Grand Forks:

J. H. Kitzhofer, D. V. S., *Asst. Vet., Insp. in charge.*

Ohio—

Athens:

P. J. Huffman, jr., D. V. S., *Asst. Vet., Insp. in charge.*

Cincinnati:

Frank Jelen, D. V. S., *Assoc. Vet., Insp. in charge.*

Cleveland:

H. H. George, D. V. S., *Assoc. Vet., Insp., in charge.*

Columbus:

O. W. Everly, D. V. S., *Asst. Vet., Insp. in charge.*

Dayton:

W. O. Trone, D. V. M., *Assoc. Vet., Insp. in charge.*

Marion:

F. E. Theobald, D. V. M., *Asst. Vet., Insp. in charge.*

Sidney:

C. T. Snyder, D. V. M., *Asst. Vet., Insp. in charge.*

Toledo:

M. L. Crans, V. S., *Asst. Vet., Insp. in charge.*

Washington Court House:

Albert Wiltshire, *Prin. Lay Insp., in charge.*

Youngstown:

H. L. Bollinger, *Prin. Lay Insp., in charge.*

Zanesville:

W. O. McHugh, V. S., *Asst. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:

Jens Madsen, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*

Oregon—Portland:

M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Pennsylvania—

Allentown:

G. W. Famous, V. M. D., *Asst. Vet., Insp. in charge.*

Erie:

E. P. Barnhardt, D. V. M., *Asst. Vet., Insp. in charge.*

Hallstead:

S. M. Page, V. M. D., *Asst. Vet., Insp. in charge.*

Harrisburg:

W. C. Siegmund, D. V. S., *Asst. Vet., Insp. in charge.*

Philadelphia:

Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*

Pittsburgh:

C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge.*

Pottsville:

G. E. Repp, M. D. C., *Asst. Vet., Insp. in charge.*

Rhode Island—Providence:

H. M. Smith, M. D. V., *Assoc. Vet., Insp. in charge.*

South Carolina—Greenville:

F. E. Jentoft, *Prin. Lay Insp., in charge.*

South Dakota—

Huron:

P. P. Taylor, D. V. M., *Asst. Vet., Insp. in charge.*

Sioux Falls:

E. S. Dickey, D. V. S., *Assoc. Vet., Insp. in charge.*

Tennessee—

Chattanooga:

F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge.*

Knoxville:

S. A. King, D. V. S., *Asst. Vet., Insp. in charge.*

Memphis:

C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*

Morristown:

C. P. Hart, V. S., *Asst. Vet., Insp. in charge.*

Nashville:

E. F. Cary, D. V. S., *Asst. Vet., Insp. in charge.*

Union City:

J. H. Byerley, D. V. M., *Asst. Vet., Insp. in charge.*

Texas—

El Paso:

T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*

Forth Worth:

J. S. Grove, V. S., *Assoc. Vet., Insp. in charge.*

Houston:

C. F. Palmer, V. S., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Texas—Continued.
Texarkana:
H. G. Potter, *Prin. Lay Insp., in charge.*
Utah—
Ogden:
W. D. Wright, M. D. C., *Asst. Vet., Insp. in charge.*
Salt Lake City:
E. P. Durham, D. V. M., *Asst. Vet., Insp. in charge.*
Vermont—Hyde Park:
L. B. Whitney, D. V. S., *Asst. Vet., Insp. in charge.*
Virginia—
Norfolk:
J. M. Harris, *Prin. Lay Insp., in charge.*
Richmond:
Henry Marshall, D. V. M., *Asst. Vet., Insp. in charge.*
Washington—
Seattle:
C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane:
E. D. Kennedy, D. V. S., *Asst. Vet., Insp. in charge.*
Tacoma:
J. S. Kelly, D. V. S., *Asst. Vet., Insp. in charge.*
Walla Walla:
C. S. Johnston, D. V. S., *Asst Vet., Insp. in charge.*
Yakima:
S. V. Evers, D. V. S., *Asst. Vet., Insp. in charge.*
West Virginia—Wheeling:
R. F. Vermilya, D. M. C., *Asst. Vet., Insp. in charge.*
Wisconsin—
Eau Claire:
Wm. Fotheringham, V. S., *Asst. Vet., Insp. in charge.*
Green Bay:
W. A. Donegan, *Prin. Lay Insp., in charge.*
Madison:
L. A. Licking, D. C. M., *Asst. Vet., Insp. in charge.*
Milwaukee:
A. F. Staub, D. V. M., *Assoc. Vet, Insp. in charge.*
A. D. Bullock, D. V. M., *Vet., Traveling Vet. Insp.*

DIVISION OF HOG CHOLERA CONTROL

U. G. Houck, B. S., D. V. M., *Sr. Vet., Chief.*
T. P. White, D. V. S., *Vet., Asst. Chief.*
FIELD STATIONS (work conducted in coop. with State authorities):
Alabama—Birmingham:
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Arkansas—Little Rock:
Hugh L. Fry, V. M. D., *Asst. Vet, Insp. in charge.*
California—Sacramento:
Rudolph Snyder, D. V. M., *Assoc. Vet., Insp. in charge.*
Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*
Florida—Tallahassee:
J. G. Fish, D. V. M., *Asst. Vet., Insp. in charge.*
Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet., Insp. in charge.*
Idaho—Boise:
W. A. Sullivan, D. V. M., *Asst. Vet., Insp. in charge.*
Illinois—Springfield:
James McDonald, D. V. M., *Asst. Vet., Insp. in charge.*
Indiana—Indianapolis:
J. E. Gibson, D. V. M., *Assoc. Vet., Insp. in charge.*
Iowa—Des Moines:
J. A. Barger, D. V. S., *Vet., Insp. in charge.*
Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*
Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc Vet., Insp. in charge.*
Maryland—College Park:
I. K. Atherton, V. S., *Assoc. Vet., Insp. in charge.*
Michigan—Lansing:
T. S. Rich, V. S., Vet., *Insp. in charge.*
Mississippi—Jackson:
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*
Missouri—Jefferson City:
Ralph Graham, D. V. M., *Assoc. Vet., Insp. in charge.*
Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*
Nebraska—Lincoln:
W. C. Herrold, V. S., *Assoc. Vet., Insp. in charge.*
North Carolina—Raleigh:
W. C. Dendinger, D. V. M., *Assoc. Vet., Insp. in charge.*
North Dakota—Bismarck:
J. B. Hollenbeck, D. V. M., *Asst. Vet., Insp. in charge.*
Ohio—Columbus:
A. J. De Fosset, D. V. M., *Assoc. Vet., Insp. in charge.*
Oklahoma—Oklahoma City:
Harry Grafke, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

South Carolina—Columbia:
W. K. Lewis, D. V. M., *Assoc. Vet., Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Tennessee—Nashville:
H. M. O'Rear, D. V. M., *Asst. Vet., Insp. in charge.*

Texas—Fort Worth:
H. L. Darby, D. V. S., *Assoc. Vet., Acting Insp. in charge.*

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Virginia—Norfolk:
T. M. Owen, V. S., *Asst. Vet., Insp. in charge.*

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

West Virginia—Charleston:
H. M. Newton, D. V. M., *Asst. Vet., (coop.), Insp. in charge.*

Wisconsin—Madison:
J. T. Purcell, D. V. M., *Asst. Vet., Insp. in charge.*

BUREAU OF DAIRY INDUSTRY

C. W. Larson, M. S., Ph. D., *Chief.*
J M. Kemper, *Sr. Admin. Asst.*

DAIRY RESEARCH LABORATORIES

L. A. Rogers, B. S., D. Sc., *Sr. Bact., in charge.*

Bacteriology and Chemistry of Milk:
Alan Leighton, B. S., *Chem.*
E. O. Whittier, M. S., Ch. E., *Chem.*
W. C. Frazier, B. S., Ph. D., *Assoc. Bact.*
Philip Rupp, Ph. D., M. D., *Assoc. Chem.*

Condensed Milk and Milk Powder:
G. E. Holm, M. S., Ph. D., *Chem.*
Anne Benton, M. A., *Assoc. Bact.*
E. F. Deysher, B. S., *Asst. Chem.*
G. R. Greenbank, B. A., *Asst. Chem.*
P. A. Wright, M. A., *Asst. Chem.*
B. W. Webb, M. S., *Jr. Dairy Manf. Spec.*

Cheese Manufacturing Investigations:
K. J. Matheson, B. S., *Dairy Manf. Spec.*
W. R. Albus, B. S., *Assoc. Bact.*
A. J. Boyer, B. S., *Jr. Dairy Manf. Spec.*
G. P. Sanders, *Jr. Dairy Manf. Spec.*
P. D. Watson, B. S., *Asst. Chem.*

Butter and By-Products:
Raymond Bell, M. S. A., Ph. D., *Assoc. Dairy Manf. Spec.*
W. T. Johnson, S. B., *Assoc. Bact.*
F. R. Evans, B. S., *Jr. Bact.*
S. J. Broderick, B. S., *Asst. Chem.*

Ice Cream Investigations:
P. N. Peter, B. S., *Asst. Chem.*
O. E. Williams, B. S., *Asst. Dairy Manf. Spec.*

Nutrition of Dairy Cows:
E. B. Meigs, A. B., M. D., *Physiol.*
C. A. Cary, S. B., *Assoc. Chem.*
W. A. Turner, M. A., Ph. D., *Assoc. Chem.*
H. T. Converse, B. S., M. A., *Asst. Dairy Husb.*
T. S. Harding, B. S., *Asst. Chem.*
A. M. Hartman, B. S., *Jr. Chem.*

DAIRY CATTLE BREEDING INVESTIGATIONS

R. R. Graves, M. S., *Spec. in Dairy Cattle Breeding, in charge.*
M. H. Fohrman, B. S., A. M., *Dairy Husb.*
G. W. Hervey, B. S., A. M., *Biometrician.*
F W. Miller, D. V. M., M. S. A., *Vet. and Physiol.*
W. W. Swett, B. S., A. M., *Dairy Husb.*
Duncan Stuart, M. S., *Assoc. Dairy Husb.*

MARKET MILK INVESTIGATIONS

Ernest Kelly, *Mkt. Milk Spec., in charge.*

Milk-Plant Management:
C. E. Clement, B. S., *Assoc. Mkt. Milk Spec.*
J. B. Bain, A. B., *Assoc. Mkt. Milk Spec.*
F. M. Grant, B. S., *Asst. Mkt. Milk Spec.*

Dairy Sanitation:
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
R. J. Posson, B. S. A., *Assoc. Mkt. Milk Spec.*
L. H. Burgwald, B. S. A., *Asst. Mkt. Milk Spec.*

Market Milk and Cream:
C. J. Babcock, B. S. A., *Assoc. Mkt. Milk Spec.*
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
R. P. Hots, B. S. A., *Asst. Mkt. Milk Spec.*

DAIRY INTRODUCTION

J. H. McClain, B. S. A., *Dairy Husb., in charge.*

Dairy Manufacturing Investigations:
Wm. White, B. S. A., *Dairy Manf. Spec.*
R. E. Hardell, B. S. A., *Asst. Dairy Manf. Spec.*

Dairy Manufacturing Investigations—Contd.
C. S. Trimble, B. S. A., *Assoc. Dairy Manf. Spec.*
J. G. Winkjer, *Assoc. Dairy Husb.*
FIELD HEADQUARTERS:
Mississippi—A. & M. College:
Albert Fenger, *Agt. in Dairying (Coop.).*
North Carolina—Boone:
H. L. Wilson, *Cheesemaker.*
Pennsylvania—Grove City:
H. C. Jackson, M. S. A., Ph. D., *Assoc. Dairy Manf. Spec. (Coop.).*
Tennessee—
Knoxville:
G. N. Tobey, *Agt. in Dairying (Coop.).*
Lebanon:
L. S. Edwards, *Dairy Manf. Spec. (Coop.).*
Wisconsin—Madison:
Sumner A. Hall, B. S., *Asst. Dairy Manf. Spec. (Coop.).*

Milk Utilization:
Jessie M. Hoover, M. S., *Assoc. Spec. in Milk Util.*
Florence L. Hall, B. S., *Assoc. Spec. in Milk Util.*

Dairy Herd Improvement:
J. R. Dawson, B. S. A., A. M., *Dairy Husb.*
J. C. McDowell, B. S. A., M. A., *Dairy Husb.*
J. B. Parker, B. S. A., *Assoc. Dairy Husb.*
W. E. Wintermeyer, B. S. A., *Assoc. Dairy Husb.*
G. E. Braun, B. S. A., *Asst. Mkt. Milk Spec.*

Renovated Butter Inspection:
C. S. Trimble, B. S. A., *Assoc. Dairy Manf. Spec.*

Navy Butter Supervision:
C. S. Trimble, B. S. A., *Assoc. Dairy Manf. Spec.*

Western Office, Salt Lake City, Utah:
J. E. Dorman, *Dairy Husb., in charge.*
S. J. Pearce, M. S., *Asst. Mkt. Milk Spec.*
H. A. Mathieson, B. S. A., Boise, Idaho, *Agt. in Dairying (Coop.).*
H. R. Lochry, B. S. A., *Asst. Dairy Manf. Spec.*

DAIRY ENGINEERING

K. E. Parks, *Assoc. Dairy Engr., in charge.*

DAIRY EXPERIMENT STATIONS

Louisiana—Jeanerette:
F. S. Fletcher, M. S., *Jr. Dairy Husb.*
Maryland—Beltsville:
T. E. Woodward, M. S., *Dairy Husb., Supt.*
Montana—Huntley:
T. W. Moseley, M. S., *Assoc. Dairy Husb.*
Oklahoma—Woodward:
C. J. Stauber, *Sr. Dairy Herdsman.*
South Dakota—Ardmore:
J. B. Shepherd, B. S., *Asst. Dairy Husb.*

DAIRY PUBLICATIONS AND EXHIBITS

A. B. Nystrom, M. S., *Asst. to Chief, in charge.*

LIBRARY

Carrie B. Sherfy, *Jr. Libr., in charge.*

BUREAU OF PLANT INDUSTRY

William A. Taylor, B. S., D. Sc., *Chief.*
Karl F. Kellerman, B. S., D. Sc., *Assoc. Chief.*
H. E. Allanson, B. S., *Asst. to Chief.*
James M. Pickens, *Asst., in charge of Pubs.*
W. P. Cox, *Asst., in charge of Accts.*
F. E. Meloy, *Asst., in charge of Property.*

ALKALI AND DROUGHT RESISTANT CROPS

T. H. Kearney, LL. D., *Sr. Physiol., in charge.*

Egyptian Cotton Breeding Investigations:
FIELD STATION:
Arizona—Sacaton:
George J. Harrison, *Prin. Sci. Aid.*
Robert H. Peebles, *Sci. Aid.*
Dow D. Porter, *Asst. Sci. Aid.*

Breeding and Physiology of Alkali and Drought Resistant Plants:
FIELD STATION:
Arizona—Sacaton:
George J. Harrison, *Prin. Cci. Aid.*

ARLINGTON EXPERIMENT FARM, ROSSLYN, VA.

E. C. Butterfield, B. S., *Hort. and Supt., in charge.*
J. H. Criswell, B. S., *Assoc. Hort., Asst. Supt.*

BIOPHYSICAL LABORATORY

G. N. Collins, *Sr. Bot., in charge.*

Mechanism of Heredity:
G. N. Collins, *Sr. Bot.*
J. H. Kempton, *Assoc. Bot.*
A. E. Longley, B. Sc., A. M., Ph. D., *Asst. Bot.*
Harold M. Young, *Asst. Sci. Aid.*

Cooperative Biophysical Investigations:
J. O. Belz, Ph. B., M. Di., *Assoc. Biophys.*
Frank S. Rhind, *Sr. Lab. Mech.*
Relation of Soil Moisture and Soil Solutions to Growth of Plants:
L. H. Flint, B. S., M. S., Ph. D., *Asst. Physiol.*
John W. McLane, B. S., *Asst. Biophys.*

BLISTER RUST CONTROL

Samuel B. Detwiler, B. S. F., *Sr. Path., in charge.*

Eastern Control Program:
James F. Martin, B. S., M. S., Ph. D., *Path., in charge.*
Roy G. Pierce, A. B., M. S., *Assoc. Path.*
FIELD HEADQUARTERS:
Connecticut—
New Haven:
James E. Riley, jr., M. F., *Asst. Path., State ldr.*
Putnam:
Herbert J. Miles, B. S., M. F., *Sr. Sci. Aid, Co. ldr.*
Torrington:
Ernest D. Clark, Ph. B., M. F., *Agt., Co. ldr.*
Maine—
Auburn:
Guy H. Kimball, Agt., *Co. ldr.*
Augusta:
Walter O. Frost, B. S., *Assoc. Path., State ldr.*
North Bridgton:
Daniel S. Curtis, *Agt., Co. ldr.*
Portland:
Solon D. Conner, B. S., *Agt., Co. ldr.*
Sanford:
Errol E. Tarbox, B. S., M. F., *Agt., Co. ldr.*
Massachusetts—
Arlington Heights:
William T. Roop, *Agt., Co. ldr.*
Boston:
Carl C. Perry, B. S., M. F., *Agt., State ldr.*
Edmund C. Filler, B. S., *Assoc. Path.*
Kirk K. Stimson, *Agt.*
Brockton:
Earle M. Brockway, B. S., *Agt., Co. ldr.*
Gardner:
William Clave, *Agt., Co. ldr.*
Great Barrington:
William J. Endersbee, B. S., *Asst. Path., Co. ldr.*
Greenfield:
George S. Doore, *Agt., Co. ldr.*
Springfield:
Ralph E. Wheeler, *Agt., Co. ldr.*
Taunton:
Lewis W. Hodgkins, *Agt.*
Worcester:
Edward J. McNerney, *Agt., Co. ldr.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS—Continued.
New Hampshire—
Concord:
Leonard E. Newman, *Agt., State ldr.*
John M. Corliss, *Agt., Asst. State ldr.*
Thomas J. King, *Agt., Co. ldr.*
Conway:
Stephen H. Boomer, B. S., *Agt., Co. ldr.*
Exeter:
Kenneth E. Barraclough, B. S., *Agt., Co. ldr.*
Keene:
Frederick J. Baker, *Agt., Co. ldr.*
Lebanon:
George F. Richardson, *Agt., Co. ldr.*
Rochester:
William J. Cullen, *Agt., Co. ldr.*
Woodsville:
Thomas L. Kane, *Agt., Co. ldr.*
New York—
Albany:
Arthur F. Amadon, B. S., *Collab., State ldr.*
George E. Stevens, *Agt., Co. ldr.*
Gloversville:
John W. Charlton, B. S., *Agt., Co. ldr.*
Hudson:
Harrison G. Strait, *Agt., Co. Idr.*
Hudson Falls:
James D. Kennedy, B. S., *Agt., Co. ldr.*
Lewis:
Charles E. Baker, B. S., *Agt. Co. ldr.*
Benjamin H. Nichols, *Agt., Co. ldr.*
Oneonta:
Harry A. Williams, *Agt., Co. ldr.*
Saratoga Springs:
Ralph M. Hutchinson, B. S., *Agt., Co. ldr.*
Warrensburg:
Noble H. Harpp, *Agt., Co. ldr.*
Ernest G. Woodward, *Agt., Co. ldr.*
Alfred E. Fivaz, B. S., *Agt.*
Rhode Island—Providence:
Olof C. Anderson, B. S., *Agt., State ldr.*
Vermont—
Burlington:
Sharon V. Holden, *Agt., State ldr.*
Rutland:
Wilbur E. Bradder, *Agt., Co. ldr.*
White River Junction:
Frank H. Rose, *Agt., Co. ldr.*
Wisconsin—Madison:
Herman J. Ninman, M. S., *Agt., State ldr.*

Western Control Program:
Gilbert B. Posey, B. S., M. S., *Path.*
Maude A. Thompson, *Jr. Pl. Quar. Insp.*

Western Control Program—Continued.
FIELD HEADQUARTERS:
California—
Berkeley:
Warren V. Benedict, *For. Path.*
Sacramento:
George A. Root, M. S., *Asst. Path., State ldr.*
Montana—Missoula:
Charles H. Johnson, B. A., *Asst. Path., State ldr.*
Oregon—Corvallis:
Leslie N. Goodding, B. A., B. S., *Asst. Path., State ldr.*
Percy E. Melis, B. S., *Jr. For.*
Washington—Spokane:
Stephen N. Wyckoff, B. S., *Path.*
Charles R. Stillinger, A. B., M. S., *Assoc. Path.*
Jesse L. Bedwell, M. S., *Asst. Path.*
Henry N. Putnam, B. S., *Asst. Path.*
William A. Rockie, B. S., *Asst. Path.*
Frank A. Patty, B. S., *Jr. Path.*
Clarence C. Strong, B. S., *Jr. For.*

BOTANY

Frederick V. Coville, A. B., D. Sc., *Sr. Bot., in charge.*

Economic and Systematic Botany:
A. S. Hitchcock, B. Sc. A., M. Sc., D. Sc., *Sr. Bot.*
S. F. Blake, A. M., Ph. D., *Assoc. Bot.*
Agnes Chase, *Assoc. Bot.*
Ivar Tidestrom, Ph. B., *Asst. Bot.*
Alice C. Atwood, Ph. B., *Asst. Libr.*
Oliver M. Freeman, A. B., *Sr. Sci. Aid.*
Jason R. Swallen, B. A., M. S., *Jr. Bot.*

Weed Investigations:
M. W. Talbot, B. S., *Bot.*

CEREAL CROPS AND DISEASES

Carleton R. Ball, M. S., D. Sc., *Sr. Agron., in charge.*

Cereal Agronomy Investigations:
Max A. McCall, M. S., *Agron.*
Eastern Wheat Investigations:
Clyde E. Leighty, B. A., Ph. D., *Agron.*
William J. Sando, M. S., *Assoc. Agron.*
Western Wheat Investigations:
J. Allen Clark, M. S., *Agron.*
Karl S. Quisenberry, M. S., *Assoc. Agron.*
John R. Hooker, *Sci. Aid.*
Oat Investigations:
T. Ray Stanton, M. S., *Agron.*
Franklin A. Coffman, M. S., *Assoc. Agron.*
Barley Investigations:
Harry V. Harlan, M. S., D. Sc., *Sr. Agron.*
Merritt N. Pope, B. S., A. M., *Assoc. Agron.*
Mary L. Martini, B. S., *Asst. Bot.*
Lucille Reinbach, B. A., *Jr. Agr. Stat.*

Cereal Agronomy Investigations—Continued.
Rice Investigations:
Charles E. Chambliss, M. S., *Assoc. Agron.*
Corn Investigations:
Fred D. Richey, B. S., *Agron.*
Curtis H. Kyle, B. S., *Agron.*
Harry S. Garrison, B. S., *Asst. Agron.*
Joseph M. Hammerly, *Sr. Sci. Aid.*
Grain Sorghum and Broomcorn Investigations:
John H. Martin, M. S., Ph. D., *Assoc. Agron.*
Flax Investigations:
Arthur C. Dillman, B. S., *Assoc. Agron.*

Cereal Pathology Investigations:
Aaron G. Johnson, M. S., Ph. D., *Sr. Path.*
Sac and Imperfect Fungi Investigations:
Aaron G. Johnson, M. S., Ph. D., *Sr. Path.*
Cereal Rust Investigations:
Harry B. Humphrey, B. S., Ph. D., *Sr. Path.*
Barberry Eradication:
Forrest E. Kempton, M. S., Ph. D., *Assoc. Path.*
Lynn D. Hutton, M. S., *Assoc. Path.*
Cereal Smut Investigations:
Wendell H. Tisdale, M. S., Ph. D., *Path.*
Marion A. Griffiths, M. S., *Asst. Path.*
Cereal Bacteria Investigations:
Charles S. Reddy, M. S., Ph. D., *Assoc. Path.*

Cereal Physiology Investigations:
Annie M. Hurd-Karrer, M. S., Ph. D., *Assoc. Physiol.*

FIELD STATIONS (Coop.):
California—
Berkeley:
Ruth F. Allen, M. A., Ph. D., *Assoc. Path. (cereal rust inv.).*
Fred N. Briggs, M. S., Ph. D., *Asst. Path. (cereal smut inv.).*
Biggs:
Jenkin W. Jones, M. S., *Assoc. Agron. and Supt.*
Davis:
Victor H. Florell, M. S., *Assoc. Agron. (cereal prod. and improvement).*
Colorado—Fort Collins:
Ernest A. Lungren, M. S., *Asst. Path. (barberry erad.).*
Georgia—Athens:
Ross R. Childs, M. S., *Agt. (cereal prod. and improvement).*
Idaho—
Aberdeen:
Gustav A. Wiebe, M. S., *Asst. Agron. (cereal prod. and improvement).*
Moscow:
Charles W. Hungerford, M. S., Ph. D., *Agt. (stripe rust inv.).*
J. Milford Raeder, M. S., *Agt. (stripe rust inv.).*

FIELD STATIONS—Continued.

Illinois—

Bloomington:

James R. Holbert, M. S., Ph. D., *Agron.* (*corn root-rot and stalk-rot inv.*).

Urbana:

Gordon C. Curran, B. S., *Assoc. Path.* (*barberry erad.*).

Indiana—Lafayette:

George N. Hoffer, A. B., M. S., D. Sc., *Path.* (*corn root-rot and stalk-rot inv.*).

Benjamin H. Duddleston, M. S., *Assoc. Agron.* (*corn root-rot and stalk-rot inv.*).

John F. Trost, M. S., *Assoc. Path.* (*corn root-rot and stalk-rot inv.*).

Glenn M. Smith, M. S., *Asst. Path.* (*corn root-rot and stalk-rot inv.*).

Leroy E. Compton, M. S., *Asst. Path.* (*leaf rust inv.*).

Joseph C. Arthur, M. S., Sc. D., *Agt.* (*rust inv.*).

Herbert S. Jackson, A. B., *Agt.* (*rust and smut mycology*).

Wayne E. Leer, M. S., *Agt.* (*barberry erad.*).

Edwin B. Mains, A. B., Ph. D., *Agt.* (*leaf rust inv.*).

Iowa—Ames:

Merle T. Jenkins, M. S., *Assoc. Agron.* (*corn inv.*).

Arthur A. Bryan, M. S., *Asst Agron.* (*corn inv.*).

Sherlock M. Dietz, M. S., Ph. D., *Asst. Path.* (*oat crown-rust inv.*).

Lyman C. Burnett, M. S., *Agt.* (*oat breeding inv.*).

Marion A. Smith, M. S., *Agt.* (*barberry erad.*).

Kansas—

Manhattan:

Arthur M. Brunson, M. S., Ph. D., *Assoc. Agron.* (*corn inv.*).

Hurley Fellows, M. S., Ph. D., *Assoc. Path.* (*take-all and related foot-rot inv.*).

John G. Willier, B. S., M. C. S., M. A., *Asst. Agron* (*corn inv.*).

Charles O. Johnston, M. S., *Asst. Path.* (*leaf rust inv.*).

Leo E. Melchers, M. S., *Agt.* (*cereal rust and smut inv.*).

John H. Parker, M. S., *Agt.* (*cereal breeding and improvement*).

Hays:

Arthur F. Swanson, M. S., *Asst. Agron.* (*cereal prod. and improvement*).

Louisiana—

Baton Rouge:

Hugo F. Stoneberg, M. S., *Asst. Agron.* (*corn inv.*).

Crowley:

J. Mitchell Jenkins, B. S., *Assoc. Agron. and Supt.*

FIELD STATIONS—Continued.

Michigan—East Lansing:

Walter F. Reddy, LL. B., *Assoc. Path.* (*barberry erad.*).

Minnesota—St. Paul:

Olaf S. Aamodt, M. S., *Assoc. Path.* (*cereal breeding inv.*).

Moses N. Levine, M. S., Ph. D., *Assoc. Path* (*stem rust inv.*).

Leonard W. Melander, M. S., *Assoc. path.* (*barberry erad.*).

Noel F. Thompson, M. S., *Assoc. Path.* (*barberry erad., in coop. with Conference for Prevention of Grain Rust, Minneapolis*).

Edmund B. Lambert, M. S.. *Asst. Path.* (*stem rust inv.*).

Jonas J. Christensen, M. S., Ph. D., *Agt.* (*stem rust inv.*).

Gilbert D. George, *Agt.* (*stem rust inv.*).

Helen Hart, M. A., *Agt.* (*stem rust inv.*).

Arthur W. Henry, M. S., Ph. D., *Agt* (*flax rust inv.*).

Emil H. Ostrom, B. S., *Agt.* (*stem rust inv.*).

Elvin C. Stakman, M. A., Ph. D., *Agt.* (*stem rust inv.*).

James M. Wallace, B. S., *Agt.* (*stem rust inv.*).

Edward M. Freeman, M. S., Ph. D., *Collab.* (*stem rust inv.*).

Herbert K. Hayes, M. S., Sc. D., *Collab.* (*cereal breeding inv.*).

Ralph U. Cotter, M. S., *Asst. Path.*, (*stem rust inv.*).

Missouri—Columbia:

Lewis J. Stadler, B. S., A. M., Ph. D., *Agt.* (*cereal prod. and improvement*).

Montana—

Bozeman:

William L. Popham, B. S., *Agt.* (*barberry erad.*)

Moccasin:

Ralph W. May, B. S., *Asst. Agron.* (*cereal prod. and improvement*).

Nebraska—

Lincoln:

Albert F. Thiel, M. A., *Assoc. Path.* (*barberry erad.*).

North Platte:

George F. Sprague, M. S., *Jr. Agron.* (*cereal prod. and improvement*).

New York—Ithaca:

Lowell F. Randolph, Ph. D., *Assoc. Cytol.* (*cytology, histology, and morphology of corn*).

William T. Craig, *Agt.* (*cereal prod. and improvement*).

Ernest Dorsey, B. S., Ph. D., *Agt.* (*cytology of cereals*).

North Dakota—

Dickinson:

Ralph W. Smith, B. S., *Assoc. Agron.* (*cereal prod. and improvement*).

FIELD STATIONS—Continued.
North Dakota—Continued.
Fargo:
George C. Mayoue, M. S., *Assoc. Path.* (*barberry erad.*).
Lytton W. Boyle, M. S., *Asst. Path.* (*flax diseases*).
Mandan:
John C. Brinsmade, jr., A. B., *Asst. Agron.* (*flax inv.*)
Elmer R. Ausemus, M. S., *Jr. Agron.* (*cereal prod. and improvement*).
Ohio—Columbus:
John W. Baringer, A. B., M. S., *Assoc. Path.* (*barberry erad.*).
Marion T. Meyers, M. S., *Agt.* (*corn inv.*).
Oklahoma—Woodward:
John B. Sieglinger, M. S., *Assoc. Agron.* (*grain sorghum and broomcorn inv.*).
Oregon—Moro:
David E. Stephens, B. S., *Agron. and Supt.* (*cereal prod. and improvement*).
Burton B. Bayles, B. S., *Jr. Agron.* (*cereal prod. and improvement*).
South Dakota—Brookings:
Raymond O. Bulger, B. S., *Agt.* (*barberry erad.*).
Tennessee—Knoxville:
Ludwig S. Mayer, M. S., *Asst. Agron.* (*corn inv.*).
Virginia—Rosslyn (Arlington Exp. Farm):
Harold H. McKinney, M. S., *Path.* (*virus diseases*).
Robert W. Leukel, M. S., *Assoc. Path.* (*cereal disease inv.*).
Robert W. Webb, B. S., M. A., Ph. D., *Assoc. Path.* (*virus diseases*).
Emery R. Ranker, B. S., M. A., Ph. D., *Assoc. Phys.* (*cereal inv.*).
Victor F. Tapke, B. S., *Assoc. Path.* (*cereal smut inv.*).
John W. Taylor, M. S., *Assoc. Agron.* (*cereal production and improvement*).
Richard S. Talbott, *Jr. Sci. Aid* (*cereal disease inv.*).
Washington—Pullman:
Edward F. Gaines, M. S., Sc. D., *Agt.* (*cereal smut inv.*).
Wisconsin—Madison:
Paul E. Hoppe, B. S., *Agt.* (*wheat scab inv.*).
Helen Johann, A. M., *Asst. Path.* (*wheat scab inv.*).
William A. Walker, M. S., *Assoc. Path.* (*barberry erad.*).
James G. Dickson, M. S., Ph. D., *Agt.* (*wheat scab inv.*).
Chester Barlow, *Asst. Sci. Aid* (*wheat scab inv.*).

CITRUS CANKER ERADICATION

Directed by Assoc. Chief of Bureau.
FIELD HEADQUARTERS:
Alabama—Mobile:
John W. Pace, M. S., *Agt.* (delegated by Comr. of Agr. of Alabama to direct all local work pertaining to erad. of citrus canker).
Florida—Gainesville:
Wilmon Newell, M. S., D. Sc., *State Pl. Comr.* (*Collab.*).
Louisiana—Baton Rouge:
W. E. Anderson, B. S., *State Ent.* (*Collab.*).
Mississippi—A. & M College:
R. W. Harned, B. S., *State Ent.* (*Collab.*).
Texas—Austin:
J. M. Del Curto, B. S., *State Path.* (*Collab.*).

COTTON, RUBBER, AND OTHER TROPICAL PLANTS

O. F. Cook, Ph. B., *Sr. Bot., in charge.*
Crop Acclimatization, Cotton Breeding, and Rubber Production Investigations:
C. B. Doyle, *Agron.*
L. G. Polhamus, *Chief Sci. Aid.*
R. L. Taylor, *Sr. Sci. Aid.*
D. L. Varmette, *Sr. Sci. Aid.*
A. D. Harvey, *Asst. Sci. Aid.*
FIELD STATIONS:
Arizona—Sacaton (U. S. Field Station):
C. J. King, *Assoc. Agron. and Supt.*
J. S. Townsend, *Assoc. Tech.*
F. M. Eaton, B. S., M. S., *Asst. Physiol.*
H. F. Loomis, *Asst. Agron.*
H. J. Fulton, *Sr. Agron.*
California—
Bard (U. S. Acclimatization Garden):
R. E. Beckett, *Sci. Aid.*
J. W. Hubbard, *Asst. Sci. Aid.*
R. S. Stitt, *Asst. Sci. Aid.*
Indio:
H. G. McKeever, *Jr. Agron.*
Shafter (U. S. Cotton Field Station):
W. B. Camp, B. S., *Assoc. Agron. and Supt.*
F. W. Herbert, *Sr. Sci. Aid.*
G. O. Belden, *Asst. Sci. Aid.*
W. E. Clark, *Asst. Sci. Aid.*
J. F. Schuh, *Asst. Sci. Aid.*
Torrey Pines (U. S. San Diego Acclimatization Garden):
C. G. Marshall, *Asst. Agron. and Supt.*
E. W. Hardy, *Sr. Sci. Aid.*
Florida — Coconut Grove (Chapman Field Garden):
Alfred Keys, *Assoc. Hort.*

Crop Acclimatization, etc.—Continued.
FIELD STATIONS—Continued.
Haiti—
Bayeux:
Laurence Bolte, *Agt.*
Thor:
F. C. Baker, B. S., *Tech. and Supt.*
New Mexico—State College (U. S. Acclimatization Field Station):
A. R. Leding, *Chief. Sci. Aid.*
L. R. Lytton, *Asst. Sci. Aid.*
South Carolina—James Island, near Charleston (U. S. Acclimatization Field Station):
D. M. Simpson, B. S., *Asst. Agron. and Supt.*
W. H. Jenkins, B. S., *Prin. Sci. Aid.*
W. W. Ballard, *Sr. Sci. Aid.*
Texas—Greenville (U. S. Cotton Breeding Field Station):
H. C. McNamara, B. S., *Asst. Agron. and Supt.*
D. R. Hooton, B. S., *Asst. Pomol.*
W. P. Snyder, B. S., M. S., *Sr. Sci. Aid.*

CROP PHYSIOLOGY AND BREEDING

Walter T. Swingle, B. S., M. A., D. Sc., *Sr. Physiol., in charge.*
Citrus Breeding Work and Life History Studies of Citrus:
T. Ralph Robinson, A. M., *Physiol.*
Eugene May, jr., *Sr. Sci. Aid.*
Robert J. Bullen, *Asst. Sci. Aid.*
Alan F. Dameron, *Asst. Photographer.*
FIELD HEADQUARTERS:
California—Berkeley (Univ. of Calif.):
M. J. Hagerty, *Translator of Chinese.*
Florida—Eustis:
E. M. Savage, *Asst. Pl. Breeder.*
Date Investigations:
T. Ralph Robinson, A. M., *Physiol.*
FIELD HEADQUARTERS:
California—
Indio:
Silas C. Mason, M. S., *Hort.*
A. J. Shamblin, *Assoc. Hort.*
Roy W. Nixon, B. S., *Asst. Hort.*
Los Angeles:
Frank A. Thackery, A. M., *Agr.*
Smyrna Fig, Pistache, and Miscellaneous Investigations:
California—San Francisco:
G. P. Rixford, C. E., *Assoc. Physiol.*

DRUG, POISONOUS, AND OIL PLANTS

W. W. Stockberger, B. S., Ph. D., *Sr. Physiol., in charge.*
Drug Plants, Volatile Oils, Fixed Oils, and Waste Products Investigations:
Arthur F. Sievers, Ph. G., B. S., *Biochem.*
Frank Rabak, Ph. G., B. S., *Asst. Biochem.*
Morris S. Lowman, B. A., *Sr. Sci. Aid.*
Poisonous Plant Investigations:
Otis F. Black, A. M., *Biochem.*
Willard W. Eggleston, B. S., *Asst. Bot.*
James W. Kelly, Pharm. D., *Jr. Biochem.*

DRY-LAND AGRICULTURE

E. C. Chilcott, M. S., *Sr. Agr., in charge.*
John S. Cole, B. S., *Agron.*
NORTHERN FIELD STATIONS (hdqrs., Mandan, N. Dak.):
John M. Stephens, B. S., *Sr. Agr. and Northern group ldr.*
Colorado—Akron:
Joseph F. Brandon, B. S., *Assoc. Agron., Supt.*
Montana—
Havre:
George W. Morgan, B. S., *Assoc. Agron., Supt.*
Huntley:
Arthur E. Seamans, B. S., *Assoc. Agron.*
Moccasin:
Albert Osenbrug, B. S., *Assoc. Agron., Supt.*
Nebraska—North Platte:
Leslie L. Zook, B. S., *Assoc. Physiol.*
Harry E. Weakly, B. S., *Jr. Agron.*
North Dakota—
Dickinson:
Leroy Moomaw, B. S., *Assoc. Agron., Supt.*
Mandan:
Hdqrs. of Northern group ldr.
William P. Baird, B. S., *Assoc. Agron.*
Johnson T. Sarvis, M. S., *Assoc. Agron.*
John C. Thysell, B. S., *Assoc. Agron.*
Robert Wilson, B. S., *Assoc. Agron.*
Thomas K. Killand, *Sr. Sci. Aid.*
South Dakota—
Ardmore:
Floyd L. Kelso, B. S., *Assoc. Agron., Supt.*
John D. Kelso, *Sr. Sci. Aid.*
Newell:
Oscar R. Mathews, M. S., *Assoc. Agron.*
Wyoming—
Archer:
August L. Nelson, M. S., *Assoc. Agron., Supt.*
Sheridan:
Ray S. Towle, B. S., *Assoc. Agron., Supt.*
SOUTHERN FIELD STATIONS (hdqrs., Woodward, Okla.):
Ellery F. Chilcott, B. S., *Agr. and Southern group ldr.*
Kansas—
Colby:
Benjamin F. Barnes, B. S., *Agt., Supt.*
Garden City:
Embert H. Coles, B. S., *Agt.*

SOUTHERN FIELD STATIONS—Continued.
Kansas—Continued.
Hays:
Alanson L. Hallsted, B. S., *Assoc. Agron.*
New Mexico—Tucumcari:
Donald R. Burnham, B. S., *Assoc. Agron., Supt.*
Oklahoma—
Lawton:
Walter M. Osborn, B. S., *Assoc. Agron., Supt.*
Woodward:
Hdqrs. of Southern group ldr.
Lowell F. Locke, B. S., *Assoc. Agron.*
Texas—
Big Spring:
Fred E. Keating, B. S., *Assoc. Agron., Supt.*
Dalhart:
Harry J. Clemmer, B. S., *Assoc. Agron., Supt.*

FIBER PLANTS

Lyster H. Dewey, B. S., *Bot., in charge.*
H. T. Edwards, B. S., *Tech.*
FIELD HEADQUARTERS:
Michigan—East Lansing:
Brittain B. Robinson, M. S., *Jr. Pl. Breeder.*
Porto Rico—Mayaguez:
Rafael Vidal, *Agt.*
Wisconsin—Madison:
A. H. Wright, M. S., *Agt.*

FORAGE CROPS

Russell A. Oakley, B. S., D. Sc., *Sr. Agron., in charge.*
Bernard Connor, M. C. Sc., M. L., *Jr. Admin. Asst.*
Clover Investigations:
Adrian J. Pieters, B. S., Ph. D., *Agron.*
Leonard W. Kephart, B. S., *Assoc. Agron.*
FIELD HEADQUARTERS:
Illinois—Urbana:
Eugene A. Hollowell, M. S., *Jr. Agron., Supt. of field activ.*
Virginia—Rosslyn:
Anselm T. Stone, *Sci. Aid Asst. in field sta. activ.*
Dry-Land Forage Crop Investigations:
Harry N. Vinall, M. S., *Agron.*
FIELD HEADQUARTERS:
Kansas—Hays:
Robert E. Getty, A. B., B. S., *Assoc. Agron., Supt. of field activ.*
Texas—Chillicothe:
Joseph C. Stephens, M. S., *Jr. Agron., Asst. Supt. of field activ.*
Soy Bean, Cowpea, and Velvet Bean Investigations:
William J. Morse, B. S., *Agron.*
FIELD HEADQUARTERS:
Virginia—Rosslyn:
Charles W. Lee, *Sci. Aid. Asst. in field sta. activ.*

Alfalfa Investigations:
Harvey L. Westover, B. S., *Agron.*
FIELD HEADQUARTERS:
Mississippi—West Point:
Tyler F. Akers, M. S., *Agt., Supt. of field activ.*
Miscellaneous Forage Crop Investigations:
Percy L. Ricker, M. S., *Asst. Bot., Arlington Farm grass plots and greenhouse work.*
FIELD HEADQUARTERS:
Mississippi—McNeil:
Hiram R. Reed, B. S., *Asst. Agron., Supt. of field activ.*
Montana—Moccasin:
Norval F. Woodward, B. S., *Asst. Agron., Asst. Supt. of field activ.*
Ohio—North Ridgeville:
Morgan W. Evans, M. S., *Assoc. Agron., Supt. of field activ.*
Oregon—Corvallis:
Harry A. Schoth, M. S., *Asst. Agron., Supt. of field activ.*
South Dakota—Redfield:
Samuel Garver, B. S., *Assoc. Agron., Supt. of field activ.*
Storage and Shipment of Forage Crop Seeds:
Fred C. Hall, Sr. Sci. Aid, *Supt. of seed wareh. oper.*

FOREIGN PLANT INTRODUCTION

David Fairchild, M. S., D. Sc., *Sr. Agr. Expl., in charge.*
B. T. Galloway, B. Agr. Sc., LL. D., D. Agr., *Sr. Path.*
Roland McKee, B. S., *Hort., Admin.*
Foreign Exploration:
J. A. Stevenson, B. S., *Bot.*
Paul G. Russell, B. A., M. S., *Asst. Bot.*
FIELD HEADQUARTERS:
Algeria—Mustapha:
L. Trabut, M. D., *Collab.*
China—
Canton:
Floyd A. McClure, A. B., B. S., *Agr. Expl.*
Yunnan:
Joseph F. Rock, *Collab.*
France—Nice:
A. Robertson Proschowsky, M. D., *Collab.*
Hawaii—Honolulu:
H. L. Lyon, M. S., Ph. D., *Collab.*
Manchuria—Harbin:
P. H. Dorsett, B. Agr., *Agr. Expl.*
J. H. Dorsett, *Collab.*
New York—New York:
A. V. Armour, *Collab.*
Plant Propagation and Distribution:
C. C. Thomas, A. B., M. S., *Assoc. Hort.*
H. C. Skeels, B. S., *Assoc. Bot.*
F. J. Hopkins, B. A., *Asst. Hort.*
I. W. Dix, *Sci. Aid.*

Plant Propagation and Distribution—Contd.
FIELD HEADQUARTERS:
California—Chico:
J. E. Morrow, *Supt.*
B. D. Douglas, *Sr. Pl. Prop.*
C. H. Jackson, *Sr. Pl. Prop.*
Henry Klopfer, *Sr. Pl. Prop.*
Florida—
Coconut Grove:
H. A. Gunning, B. S., *Assoc Hort., Supt.*
A. W. Close, *Pl. Prop.*
Gainesville:
R. A. Young, B. S., *Assoc. Hort.*
Littleriver:
Charles T. Simpson, *Collab.*
Miami:
Edward Simmonds, *Supt.*
Naples:
H. Nehrling, *Collab.*
Georgia—Savannah:
David A. Bisset, *Supt.*
Illinois—Chicago:
Barbour Lathrop, *Collab.*
Maryland—Glenn Dale:
Edward Goucher, *Supt.*
Massachusetts—Jamaica Plain:
E. H. Wilson, A. M., *Collab.*
Washington—Bellingham:
H. A. Houser, *Sci. Aid.*
B. L. Peters, *Sr. Sci. Aid.*

FOREST PATHOLOGY

Haven Metcalf, A. M., Ph. D., *Sr. Path., in charge.*
Carl P. Hartley, A. M., Ph. D., *Path.*
George G. Hedgcock, B. S., A. M., Ph. D., *Path.*
G. F. Gravatt, B. S., A. M., *Assoc. Path.*
Lake S. Gill, *Asst. Path.*
Annie R. Gravatt, A. B., M. S., *Jr. Path.*
Ruby J. Acree, *Jr. Path.*
Russell B. Clapper, *Asst. Sci. Aid.*

FIELD HEADQUARTERS:
California—San Francisco:
E. P. Meinecke, Ph. D., *Path.*
Willis W. Wagener, A. B., *Asst. Path.*
Connecticut—New Haven:
Rush P. Marshall, M. S., *Asst. Path.*
Massachusetts—Amherst:
Perley Spaulding, M. S., Ph. D., *Path.*
New Mexico—Albuquerque:
W. H. Long, A. M., Ph. D., *Path.*
New York—Syracuse:
Everett J. Eliason, M. S., *Asst. Path.*
Oregon—Portland:
John S. Boyce, B. S., M. F., Ph. D., *Path.*
H. G. Lachmund, A. B., *Asst. Path.*
J. L. Meilke, *Jr. Path.*
C. N. Partington, *Jr. Path.*
Rhode Island—Providence:
J. Franklin Collins, Ph. B., *Path.*
Nathaniel O. Howard, M. S., Ph. D., *Assoc. Path.*
Alma M. Waterman, A. M., *Jr. Path.*

FIELD HEADQUARTERS—Continued.
Scotland—Edinburgh:
Glenn G. Hahn, M. S., *Asst. Path.*
Wisconsin—Madison:
Reginald H. Colley, A. M., Ph. D., *Path.*
C. Audrey Richards, A. M., Ph. D., *Asst. Path.*
Caroline T. Rumbold, B. L., A. M., Ph. D., *Asst. Path.*

FRUIT DISEASES

Merton B. Waite, B. S., D. Agr., *Sr. Path., in charge.*
General Orchard Disease Investigations:
J. Marion Shull, *Assoc. Bot.*
Eugene A. Siegler, M. S., *Asst. Path.*
E. Aline Fenner, A. B., *Jr. Path.*
FIELD HEADQUARTERS:
Georgia—
Fort Valley:
Lee M. Hutchins, B. S., Ph. D., *Assoc. Path.*
Thomasville:
Juan B. Demaree, B. S., *Assoc. Path.*
John R. Cole, M. S., *Jr. Path.*
Citrus and Subtropical Fruit Disease Investigations:
Harry R. Fulton, A. M., *Path.*
John J. Bowman, B. S., *Jr. Path.*
FIELD HEADQUARTERS:
Florida—Orlando:
F. A. Wolf, A. M., Ph. D., *Path.*
Walter J. Bach, M. S., *Jr. Path.*
Grape and Small Fruit Disease Investigations:
C. L. Shear, A. M., Ph. D., *Sr. Path.*
Neil E. Stevens, A. M., Ph. D., *Path.*
B. O. Dodge, Ph. B., Ph. D., *Path.*
Angie M. Beckwith, A. B., *Jr. Path.*
FIELD HEADQUARTERS:
Ohio—Wooster:
R. B. Wilcox, M. S., *Asst. Path.*
Orchard Spraying Investigations:
John W. Roberts, A. M., Ph. D., *Path.*
FIELD HEADQUARTERS:
Georgia—Fort Valley:
John C. Dunegan, B. S., *Asst. Path.*
Indiana—Vincennes:
Leslie Pierce, *Sr. Sci. Aid.*
Fruit Rots and Spots Investigations:
Charles Brooks, A. M., Ph. D., *Sr. Path.*
J. S. Cooley, A. M., Ph. D., *Assoc. Path*
FIELD HEADQUARTERS:
Washington—Wenatchee:
D. F. Fisher, B. S., *Path.*
C. P. Harley, M. S., *Asst. Path.*
Physiological Fruit Disease Investigations:
FIELD HEADQUARTERS:
California—Fresno:
W. S. Ballard, A. B., *Path.*
Market Pathology Investigations:
Dean H. Rose, A. M., Ph. D., *Assoc. Path.*

Market Pathology Investigations—Contd.
FIELD HEADQUARTERS:
Illinois—Chicago:
Lowell F. Butler, M. S., *Jr. Path.*
Enforcement of Insecticide Act:
Errett Wallace, M. S. A., Ph. D., *Path.*
F. P. Schlatter, B. S., *Asst. Path.*
FIELD HEADQUARTERS:
New Jersey—Haddonfield:
De Witt P. Perry, B. S., *Asst. Path.*
Oregon—Corvallis:
Floyd D. Bailey, A. B., A. M., *Asst. Path.*

GARDENS AND GROUNDS

J. Wise Byrnes, *Asst., in charge.*

HORTICULTURE

L. C. Corbett, M. S., D. Agr., *Sr. Hort., in charge.*
Fruit Improvement through Bud Selection:
FIELD HEADQUARTERS:
California—Riverside:
A. D. Shamel, B. S., *Sr. Physiol.*
C. S. Pomeroy, Ph. B., B. S., *Assoc. Pomol.*
R. E. Caryl, M. S., *Asst. Pomol.*
Frank N. Harmon, B. S., *Jr. Pomol.*
Fruit and Vegetable Utilization Investigations:
J. S. Caldwell, A. M., Ph. D., *Physiol.*
C. A. Magoon, A. B., Ph. D., *Assoc. Bact.*
FIELD HEADQUARTERS:
Virginia—Rosslyn (Arlington Exp. Farm):
C. W. Culpepper, M. S., *Assoc. Physiol.*
Fruit and Vegetable Handling, Transportation, and Storage Investigations:
Lon A. Hawkins, B. S., Ph. D., *Physiol.*
John R. Magness, M. S., Ph. D., *Physiol*
R. C. Wright, M. S., *Assoc. Physiol.*
George F Taylor, A. B., *Assoc. Biophys.*
W. S. Graham, B. S., *Jr. Physiol.*
Mark H. Haller, M. S., *Jr. Pomol.*
FIELD HEADQUARTERS:
California—
Lamada Park:
Wm. R. Barger, B. S., *Assoc. Physiol.*
Los Angeles:
C. W. Mann, B. S., *Pomol.*
Virginia—Rosslyn (Arlington Exp. Farm):
Earl D. Mallison, B. S., *Asst. Mkt. Spec.*
Washington—Wenatchee:
H. C. Diehl, B. S., *Asst. Physiol.*
Fruit Production Investigations:
H. P. Gould, M. S., *Pomol.*
Magdelene R. Newman, *Jr. Libr.*
Fruit Production Investigations—Continued.
R. C. Steadman, *Chief Sci. Illustrator.*
Amanda A. Newton, *Sci. Illustrator.*
Mary D. Arnold, *Asst. Sci. Illustrator.*
FIELD HEADQUARTERS:
California—Sacramento:
C. F. Kinman, B. S., *Assoc. Pomol.*
Maryland—Glenn Dale:
George M. Darrow, A. M., *Assoc. Pomol.*
George F. Waldo, M. S., *Jr. Pomol.*
Fruit Improvement through Breeding:
FIELD HEADQUARTERS:
California—Palo Alto:
William F. Wight, B. S., A. M., *Assoc. Bot.*
Grape Investigations:
George C. Husmann, M. S., *Assoc. Pomol.*
FIELD HEADQUARTERS:
California—
Fresno:
Elmer Snyder, M. S., *Assoc. Pomol.*
Napa:
Frederick L. Husmann, *Supt.*
North Carolina—Willard:
Charles T. Dearing, B. S., *Assoc. Hort.*
Potato Investigations:
William Stuart, M. S., D. Sc., *Hort.*
W. M. Peacock, M. S., *Assoc. Hort.*
Charles F. Clark, M. S., Ph. D., *Assoc. Hort.*
P. M. Lombard, B. S., *Asst. Hort.*
FIELD HEADQUARTERS:
Colorado—Greeley:
W. C. Edmundson, M. S., *Assoc. Hort. and Supt.*
Truck Crop Production Investigations:
William R. Beattie, M. S., *Hort.*
J. H. Beattie, B. S., *Assoc. Hort.*
A, M. Jackson, *Sci. Aid.*
Field Trials of Vegetable Seeds:
D. N. Shoemaker, B. S., Ph. D., *Assoc. Hort.*
Bulb Culture Investigations:
David Griffiths, M. S., Ph. D., *Hort.*
Landscape Gardening and Floriculture Investigations:
F. L. Mulford, B. S., *Assoc. Hort.*
D. V. Lumsden, B. S., *Jr., Hort.*
FIELD HEADQUARTERS:
Maryland—Glenn Dale:
B. Y. Morrison, B. S., M. L. A., *Assoc. Hort.*
Nursery Stock Investigations:
Guy E. Yerkes, B. S., *Assoc. Hort.*
FIELD HEADQUARTERS:
California—Shafter:
L. B. Scott, B. S., *Pomol.*
Maryland—Glenn Dale:
Charles F. Swingle, B. S., *Asst. Pomol.*
Nut Culture Investigations:
Clarence A. Reed, B. S., M. H., *Assoc. Pomol.*
E. R. Lake, M. S., *Asst. Pomol.*

Nut Culture Investigations—Continued.
FIELD HEADQUARTERS:
California—Sacramento:
Milo N. Wood, M. S., *Assoc. Pomol.*
Georgia—Philema:
J. L. Pelham, B. S., *Asst. Pomol.*

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James R. Weir, Ph. D., *Path., in charge.*
Vera K. Charles, A. B., *Assoc. Path.*
Anna E. Jenkins, M. S., *Asst. Path.*
William W. Diehl, M. S., *Asst. Path.*
Edith K. Cash, A. B., *Jr. Path.*
Plant Disease Survey:
Royal J. Haskell, Ph. D., *Assoc. Path., in charge.*
G. Hamilton Martin, jr., M. S., *Asst. Path.*
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NEMATOLOGY

N. A. Cobb, B. S., M. A., Ph. D., *Sr. Nematol., in charge.*
Free-Living, Plant-Infesting, and Insect-Infesting Nemas:
G. Steiner, B. S., M. A., Ph. D., *Nematol.*
E. G. Arzberger, Ph. B., M. A., *Asst. Path.*
Helen M. Heinly, A. B., *Jr. Nematol.*
Mary Bradley, A. B., M. A., *Jr. Nematol.*
Edna M. Buhrer, A. B., *Jr. Nematol.*
Josephine F. Danforth, *Jr. Sci. Aid.*
Margaret N. Corder, *Jr. Sci. Aid.*
Gertrude L. Power, *Jr. Sci. Aid.*
Florence E. Woods, *Jr. Sci. Aid.*
FIELD HEADQUARTERS:
Utah—Salt Lake City:
Gerald Thorne, B. S., M. A., *Asst. Nematol.*
Virginia—East Falls Church:
J. R. Christie, M. S., *Assoc. Nematol.*
Agricultural Technology:
Martin L. Harrison, *Sr. Lab. Mech.*
Charles B. Bateman, *Lab. Mech.*
Eunice R. Harveycutter, *Jr. Sci. Aid.*

PATHOLOGICAL LABORATORY

Erwin F. Smith, Sc. D., LL. D., *Sr. Path., in charge.*
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Charlotte Elliott, A. M., Ph. D., *Assoc. Path.*
R. E. B. McKenney, M. S., A. M., Ph. D., *Asst. Path.*
Florence Hedges, A B., *Asst. Path.*
Lucia McCulloch, B. S., *Asst. Path.*
Mary K. Bryan, A. B., *Asst. Path.*
Helen E. Fox, A. B., *Jr. Path.*
Lillian C. Cash, A. B., *Jr. Path.*
Agnes J. Quirk, *Sr. Sci. Aid.*
Edna H. Fawcett, B. L., *Jr. Path.*
James F. Brewer, *Chief Sci. Illustr.*

PLANT GEOGRAPHY AND PHYSIOLOGY

H. L. Shantz, Ph. D., *Sr. Physiol., in charge.*
Plant Geography in Relation to Plant Industry:
R. L. Piemeisel, A. B., *Asst. Physiol.*
FIELD HEADQUARTERS:
California—Chula Vista:
Harry S. Hall, *Asst. Sci. Aid.*
Plant Physiological Investigations:
H. Hasselbring, Ph. D., *Assoc. Physiol.*
S. L. Jodidi, B. S., Ph. D., *Assoc. Biochem.*
Charles E. Sando, M. S., Ph. D., *Assoc. Biochem.*
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Indiana—Lafayette:
Jane C. Kinsella, B. S., *Asst. Bot.*
Missouri—Columbia:
Clara Fuhr, M. S., *Jr. Bot.*
Oregon—Corvallis:
Bertha C. Hite, A. B., *Asst. Bot.*
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F. L. Goll, *Assoc. Physiol.*
Klare S. Markley, B. S., M. S., *Asst. Biochem.*
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William W. Gilbert, M. S., *Path. (cucurbit diseases; also cotton diseases).*
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Everett C. Tatman, *Agt. (celery and lettuce diseases).*
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M. Westveld, B. S., M. F., *Assoc. Silv.*
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Forest Experiment Stations—Continued.
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Public Relations:
Theodore Shoemaker, *Jr. Admin. Off.*
K. D. Swan, B. S., M. F., *Asst. Dist. For. Insp.*
Finance and Accounts:
O. M. Wold, *Dist. Fiscal Agt.*
S. E. Schoonover, *Dep.*
Operation:
L. C. Stockdale, *Asst. Dist. For.*
G. I. Porter, *Admin. Off.*
W. P. Hillman, *Jr. Admin. Asst.*
Fire protection—
Howard R. Flint, *Sr. Dist. For. Insp.*
Improvements—
D. L. Beatty, *Dist. For. Insp.*
R. B. Adams, *Assoc. Admin. Off., Telephone Engr.*
Law enforcements—
P. J. O'Brien, LL. B., *Assoc. Dist. For. Insp.*
State cooperative fire protection under Clarke-McNary act—
R. N. Cunningham, B. S. *Assoc. Dist. For. Insp.*
Maintenance—
O. C. Bradeen, *Sr. Admin. Asst.*
Forest Management:
Elers Koch, B. S., M. F., *Asst. Dist. For.*
Wilfred W. White, M. S., M. S. F., *Jr. Admin. Off.*
Logging engineering—
Phillip Neff, *Jr. Admin. Off.*
Clyde S. Webb, *Logging Engr.*

Forest Management—Continued.
Planting (Haugan, Mont.):
D. S. Olson, *Sr. Admin. Asst.*
G. W. Jones, *Chief For. Pl. Asst., Savenac Nursery.*
Forest Insect Investigations (Coeur d' Alene, Idaho):
J. C. Evenden, *Ent.*
Products—
S. V. Fullaway, jr., B. S., M. F., *For. Chief of Off.*
C. N. Whitney, Ph. B, M F., *Asst. For. Exam.*
M. Bradner, B. S. F., *Assoc. For.*
Grazing:
Glen A. Smith, *Asst. Dist. For.*
Thomas Lommasson, *Asst. Dist. For. Insp.*
E. D. Sandvig, B. S., *Asst. Range Exam.*
H. E. Schwan, *Jr. Range Exam.*
J. Arthur Cramer, B. S., *Jr. Range Exam.*
Range Investigations—
W. G. McGinnies, B. S. A., *Asst. Range Exam.*
Lands:
M. H. Wolff, Ph. B., M. F., *Asst. Dist. For.*
J. B. Seeley, *Clerk (Off. Asst.).*
Land Exchange—
H. G. Ade, B. S. F., *Assoc. Dist. For. Insp.*
F. K. Stewart, *Chief Surv.*
Ralph E. Fields, B. S., *Ranger.*
Claims—
C. A. McElroy, *Chief Mineral Exam.*
Engineering:
F. E. Thieme, B. S. (C. E.), *Dist. Engr.*
Maps and Surveys—
J. B. Yule, *Sr. Admin. Off.*
Frank J. Cool, *Chief Draftsman.*
W. P. Stephenson, *Chief Surv. (entry surveys).*
Roads—
F. E. Thieme, B. S. (C. E.), *Dist. Engr.*
H. A. Calkins, *Sr. Admin. Asst.*
W. P. Stephenson, *Chief Surv.*
Water Power—
F. E. Thieme, B. S. (C. E.), *Dist. Engr.*
Harold Townsend, *Chief Surv.*
Richard P. Hilleary, *Chief Surv.*
National Forests:
IDAHO:
Clearwater (Hdqrs., Orofino, Idaho)—
Paul A. Wohlen, *Supvr.*
Paul H. Gerrard, B. S. F., *Asst. Supvr.*
A. N. Cochrell, *Asst. Supvr.*
Coeur d'Alene (Hdqrs., Coeur d'Alene, Idaho)—
Charles K. McHarg, jr., M. F., *Supvr.*
A. J. Roche, *Asst. Supvr.*
Howard Drake, *Logging Engr.*
Thomas Crossley, *Chief Lumberman.*
N. Johnson, *Sr. Lumberman.*
H. H. Gurley, B. S. F., *Jr. For.*
W. G. Hoar, B. S., *Jr. For.*

National Forests—Continued.
IDAHO—Continued.
Nezperce (Hdqrs., Grangeville, Idaho)—
Leon C. Hurtt, B. S., *Supvr.*
Guy M. Brandborg, *Asst. Supvr.*
C. D. Blake, *Asst. Supvr.*
R. K. Day, B. S. F., *Jr. For.*
Pend Oreille (Hdqrs., Sandpoint, Idaho)—
E. T. Wolf, B. S. F., *Supvr.*
O. B. Parker, *Asst. Supvr.*
G. M. De Jarnette, B. S. F., *Asst. For.*
Selway (Hdqrs., Kooskia, Idaho)—
Frank J. Jefferson, *Supvr.*
Chas. A. MacGreggor, *Asst. Supvr.*
J. C. Urquhart, *Asst. Supvr.*
F. Cossitt, B. S., *Jr. For.*
St. Joe (Hdqrs., St. Maries, Idaho)—
Roy A. Phillips, *Supvr.*
James F. Brooks, B. S. F., *Asst. Supvr.*
George C. Earle, *Sr. Lumberman.*
MONTANA:
Absaroka (Hdqrs., Livingston, Mont)—
G. E. Martin, *Supvr.*
Wm. M. Rush, *Asst. Supvr.*
Beartooth (Hdqrs., Billings, Mont.)—
R. Trevor Ferguson, B. S., *Supvr.*
Beaverhead (Hdqrs., Dillon, Mont.)—
John B. Somers, C. E., *Supvr.*
Frank Foltz, B. S. F., *Asst. Supvr.*
H. W. Elofson, B. S. F., *Asst. Range Exam.*
Bitterroot (Hdqrs., Hamilton, Mont.)—
John W. Lowell, *Supvr.*
A. C. Adams, *Asst. Supvr.*
Blackfeet (Hdqrs., Kalispell, Mont.)—
James E. Ryan, *Supvr.*
Ray R. Fitting, *Asst. Supvr.*
J. H. Bosworth, *Chief Lumberman.*
Cabinet (Hdqrs., Thompson Falls, Mont.)—
Kenneth Wolfe, *Supvr.*
Carl H. Siria, *Asst. Supvr.*
C. F. Makibbin, B. S. F., *Jr. For.*
Custer (Hdqrs., Miles City, Mont.)—
Alva A. Simpson, *Supvr.*
Wm. E. Lockhart, *Asst. Supvr.*
E. W. Hartwell, B. S. F., *Jr. For.*
Deerlodge (Hdqrs., Butte, Mont.)—
John B. Taylor, M. F., *Supvr.*
J. N. Templer, *Asst. Supvr.*
Flathead (Hdqrs., Kalispell, Mont.)—
Lloyd G. Hornby, A. B., M. S. F., *Supvr.*
C. J. Hash, *Asst. Supvr.*
W. I. White, B. S. F., *Asst Supvr.*
James N. Diehl, B. S., *Ranger.*
Gallatin (Hdqrs., Bozeman, Mont.)—
Burr W. Clark, *Supvr.*
C. B. Swim, *Asst. Supvr.*
Helena (Hdqrs., Helena, Mont.)—
Arthur H. Abbott, *Supvr.*
A. A. Brown, B. S. F., *Asst. Supvr.*
H. H. Hendron, B. S. F., *Asst. Range Exam.*

National Forests—Continued.
MONTANA—Continued.
Jefferson (Hdqrs., Great Falls, Mont.)—
Wilford B. Willey, M. F., *Supvr.*
Adolph Weholt, *Asst. Supvr.*
Kootenai (Hdqrs., Libby, Mont.)—
Arthur M. Baum, *Supvr.*
Justin K. Dwinelle, *Asst. Supvr.*
K. A. Klehm, *Chief Lumberman.*
J. S. Baird, *Sr. Lumberman.*
T. B. Watkins, B. S. F., *Jr. For.*
H. Ostergaard, *Jr. For.*
Timber Surveys—
R. W. Billings, B. S. F., *Jr. For.*
A. B. Bowman, B. S., *Jr. For.*
M. C. Riley, B. S., *Jr. For.*
Lewis and Clark (Hdqrs., Choteau, Mont.)—
Eldon H. Myrick, *Supvr.*
A. D. Moir, *Asst. Supvr.*
Lolo (Hdqrs., Missoula, Mont.)—
Chas. D. Simpson, B. S., *Supvr.*
Thomas A. Clapp, B. S., *Asst. Supvr.*
Claude E. Sutton, M. A., M. F., *For. Exam.*
Madison(Hdqrs., Sheridan, Mont.)—
Walter J. Derrick, *Supvr.*
C. P. Fickes, *Asst. Supvr.*
Missoula (Hdqrs., Missoula, Mont.)—
W. M. Nagel, B. S. F., *Supvr.*
John H. Clack, *Asst. Supvr.*
WASHINGTON:
Kaniksu (Hdqrs., Newport, Wash.)—
James C. Whitham, B. S. F., *Supvr.*
F. T. Carroll, *Asst. Supvr.*
J. E. Breen, *Logging Engr.*
R. E. Dow, *Ranger.*
Stanley S. Locke, B. S. F., *Jr. For.*
Louis W. Fuess, B. S. F., *Jr. For.*

DISTRICT 2—Rocky Mountain District

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Hdqrs., Denver, Colo.

Allen S. Peck, Ph. B., *Dist. For.*

Public Relations:
H. D. Cochran, A. B., B. S. F., *Dist. For. Insp.*

Finance and Accounts:
Joel I. Buckner, *Dist. Fiscal Agt.*
V. W. Campbell, *Dep.*

Operation:
C. J. Stahl, *Asst. Dist. For.*
John McLaren, *Sr. Dist. For. Insp. (fire protection).*
Peter Keplinger, Pd. B., M. S. F., *Dist. For. Insp. (training).*
Ress Philips, *Dist. For. Insp.*
Riley Cass, jr., *Surv.*
Holland Coleman, *Surv.*
James P. Reddick, *Surv.*
Thomas J. Watkins, *Supt. of Road Const.*
John B. Cammann, *Supt. of Road Const.*

State Cooperative Fire Protection under the Weeks Law:
Michigan, Minnesota, and Wisconsin (Hdqrs., Duluth, Minn.)—
Crosby A. Hoar, B. A., M. F., *Sr. Dist. For. Insp.*

Forest Management:
M. W. Thompson, B. S., M. F., *Asst. Dist. For.*
John W. Spencer, B. A., M F., *For. Exam.*
J. A. Donery, *Logging Engr.*
Fred R. Johnson, B. S., M. F., *For. Exam. (planting).*

Grazing:
John H. Hatton, B. S., *Asst. Dist. For.*
Lynn H. Douglas, B. S. A., *Sr. Admin. Off*

Lands:
Earl W. Tinker, B. S., M. F., *Asst. Dist. For.*

Engineering:
J. L. Brownlee, C. E., Ch. E., M. E., *Dist. Engr.*

National Forests:
COLORADO:
Arapaho (Hdqrs., Hot Sulphur Springs, Colo.)—
John V. Leighou, B. S. F., *Supvr.*
Wm. P. Apgar, B. S., M. F., *Jr. For.*
Cochetopa (Hdqrs., Salida, Colo.)—
Chas. B. Mack, *Supvr.*
Eric A. Johnson, B. S. F., *Asst. For.*
Colorado (Hdqrs., Fort Collins, Colo.)—
Wm. R. Kreutzer, LL. B., *Supvr.*
Arthur L. Nelson, B. S. F., *Jr. For.*
Grand Mesa (Hdqrs., Grand Junction, Colo.)—
Ray Peck, *Supvr.*
Gunnison (Hdqrs., Gunnison, Colo.)—
Theodore Krueger, *Supvr.*
Ray R. Clarke, *Asst. Supvr.*
Holy Cross (Hdqrs., Glenwood Springs, Colo.)—
Harold L. Borden, B. S. F., *Supvr.*
Victor J. Dayharsh, *Jr. For.*
Leadville (Hdqrs., Leadville, Colo.)—
Lewis R. Rist, *Supvr.*
Allan F. Miller, B. S. F., *Jr. For.*
Montezuma (Hdqrs., Mancos, Colo)—
A. F. C. Hoffman, B. S. F., *Supvr.*
Clayton W. Watkins, B. S. F., *Jr. For.*
Pike (Hdqrs., Colorado Springs, Colo.)—
A. G. Hamel, B. S. F., *Supvr.*
Everard S. Keithley, *For. Exam.*
Harry D. Petheram, *For. Exam.*
W. H. Schrader, *Sr. For. Pl. Asst., Monument Nursery, Monument, Colo.*
Rio Grande (Hdqrs., Monte Vista, Colo.)—
Robert E. Clark, Ph. B., M. F., *Supvr.*
Paul B. Lister, M. S., *Jr. Range Exam.*

National Forests—Continued.
COLORADO—Continued.
Routt (Hdqrs., Steamboat Springs, Colo.)—
Philip V. Woodhead, *Supvr.*
San Isabel (Hdqrs., Pueblo, Colo.)—
H. E. French, B. S., M. F., *Supvr.*
S. E. Doering, *Asst. Supvr.*
San Juan (Hdqrs., Durango, Colo.)—
Andrew Hutton, B. S. F., *Supvr.*
S. D. Anderson, B. S., *For. Exam.*
Wm. L. Robb, B. S., *Jr. For.*
Uncompahgre (Hdqrs., Delta, Colo.)—
Harry H. French, *Supvr.*
Gunnar K. Fenger, B. S. F., *Jr. For.*
White River (Hdqrs., Glenwood Springs, Colo.)—
James A. Blair, *Supvr.*
Lewis Cummings, B. S. F., *Jr. For.*
MICHIGAN:
Michigan (Hdqrs., East Tawas, Mich.)—
R. G. Schreck, B. F. S., *Supvr.*
Minnesota (Hdqrs., Cass Lake, Minn.)—
G. E. Marshall, *Supvr.*
Howard Hopkins, B. A., M. F., *For. Exam.*
Superior (Hdqrs., Ely, Minn.)—
Alva L. Richey, *Supvr.*
Calvin B. Stott, B. S., M. F., *Jr. For.*
R. U. Harmon, B. S. F., *Asst. Supvr.*
Wm. L. Barker, jr., B. S., *For. Exam.*
NEBRASKA:
Nebraska (Hdqrs., Halsay, Nebr.)—
Jay Higgins, B. S. F., *Supvr.*
Karl L. Janouch, B. S. A., *Sr. For. Pl. Asst.*
SOUTH DAKOTA:
Black Hills (Hdqrs., Deadwood, S. Dak.)—
Geo. A. Duthie, B. A., M. S. F., *Supvr.*
Wm. B. Fay, *Asst Supvr.*
Fritz J. Poch, B. S. F., *Jr. For.*
Harney (Hdqrs., Custer, S. Dak.)—
James F. Conner, *Supvr.*
Paul L. Ginter, B. S., *Jr. For.*
WYOMING:
Bighorn (Hdqrs., Sheridan, Wyo.)—
Fred B. Agee, *Supvr.*
Hayden (Hdqrs., Encampment, Wyo.)—
James Blackhall, *Supvr.*
Medicine Bow (Hdqrs., Laramie, Wyo.)—
Huber C. Hilton, B. S. F., *Supvr.*
J. C. McCallister, B. S. F., *Chief Lumberman.*
D. E. Clark, B. S., *Jr. For.*
Shoshone (Hdqrs., Cody, Wyo.)—
J. N. Langworthy, *Supvr.*
Washakie (Hdqrs., Lander, Wyo.)—
Wallace J. Pearce, *Supvr.*

DISTRICT 3—Southern District

Arizona and New Mexico. (Hdqrs., Albuquerque, N. Mex.)—
Frank C. W. Pooler, *Dist. For.*

Finance and Accounts:
Albert Morris, *Dist. Fiscal Agt.*
H. B. Herms, *Dep.*

Operation:
H. G. Calkins, B. S., *Asst. Dist. For.*
James F. Mullen, *Dist. For. Insp.*
Earl W. Loveridge, B. S. F., *Dist. For. Insp.*
Edward P. Ancona, B. S. F., *For. Exam. (maintenance).*

Forest Management:
R. E. Marsh, B. S., M. F., *Asst. Dist. For.*
D. M. Lang, *Logging Engr.*
Quincy Randles, M. S. F., *Dist. For. Insp.*
W. H. Long, A. M., Ph. D., *Cousult. Path. (Bur. of Pl. Ind.).*

Grazing:
John Kerr, *Asst. Dist. For.*
David A. Shoemaker, *Dist. For. Insp.*
Ralph W. Hussey, B. S., *Assoc. Range Exam.*

Range Investigations:
C. K. Cooperrider, B. S., *Assoc. Range Exam.*
R. F. Copple, B. S., *Jr. Range Exam.*

Lands:
M. M. Cheney, LL. B., *Asst. Dist. For.*

Engineering:
C. A. Long, C. E., *Dist. Engr.*
R. L. Hughes, *Asst. Dist. Engr. (roads).*

Public Relations:
John D. Jones, A. B., J. D., *Asst. Dist. For.*

National Forests:
ARIZONA:
Apache (Hdqrs., Springerville, Ariz.)—
K. C. Kartchner, *Supvr.*
Frank Hiler, *Asst. Supvr.*
R. F. Copple, B. S., *Jr. Range Exam.*
Coconino (Hdqrs., Flagstaff, Ariz.)—
E. G. Miller, A. B., *Supvr.*
F. L. Kirby, *Asst. Supvr.*
Fred Merkle, *Chief Lumberman.*
Lloyd E. Wall, B. S., M. S., *Asst. Range Exam.*
Adolph T. W. Kuppe, B. S., *Jr. For.*
Arthur C. McIntyre, B. L., *Jr. For.*
Coronado (Hdqrs., Tucson, Ariz.)—
Frederic Winn, B. S., *Supvr.*
C. W. McKenzie, *Asst. Supvr.*
John C. Roak, B. S. F., *Asst. Supvr.*
C. H. Kissam, B. F., F. E., *Supt. of Road Const.*
Arthur B. Young, E. M., *Supt. of Road Const.*
Crook (Hdqrs., Safford, Ariz.)—
Rex King, A. B., M. S. F., *Supvr.*
C. E. Moore, *Asst. Supvr.*
Everett L. Hamilton, B. S., *Jr. For.*
Prescott (Hdqrs., Prescott, Ariz.)—
H. Basil Wales, M. F., *Supvr.*
Robert Munro, *Asst. Supvr.*
Sitgreaves (Hdqrs., Holbrook, Ariz.)—
Paul H. Roberts, B. S. F., *Supvr.*
L. R. Lessel, B. S. F., *Asst. Supvr.*
Warren V. Turner, B. S., *Jr. Range Exam.*

National Forests—Continued.
ARIZONA—Continued.
Tonto (Hdqrs., Phoenix, Ariz.)—
T. T. Swift, Ph. G., M. E., *Supvr.*
T. H. Sizer, *Asst. Supvr.*
Tusayan (Hdqrs., Williams, Ariz.)—
G. W. Kimball, A. B., M. F., *Supvr.*
William T. Doherty, F. E., *Asst. Supvr.*
NEW MEXICO:
Carson (Hdqrs., Taos, N. Mex.)—
Stanley F. Wilson, A. B., M. F., *Supvr.*
C. R. Dwire, *Asst. Supvr.*
Arthur C. Elmer, B. S. F., *For. Ranger.*
Hugo L. Sundling, B. S., *Jr. For.*
Datil (Hdqrs., Magdalena, N. Mex.)—
F. L. W. Grubb, *Supvr.*
W. J. Anderson, *Asst. Supvr.*
Grazing Reconnaissance:
Redger D. Morris, B. S. F., *Asst. Range Exam.*
B. A. Hendricks, B. S., *Jr. Range Exam.*
W. G. Koogler, *Jr. Range Exam.*
C. E. McDuff, *Jr. Range Exam.*
Gila (Hdqrs., Silver City, N. Mex.)—
James A. Scott, *Supvr.*
L. J. Putsch, *Asst. Supvr.*
Oscar B. Beckstrom, *Jr. For.*
Lincoln (Hdqrs., Alamogordo, N. Mex.)—
O. F. Arthur, *Supvr.*
Simeon Strickland, *Asst. Supvr.*
R. C. Salton, B. S., *For. Exam.*
Willard F. Bond, B. S., M. F., *Jr. For.*
Manzano (Hdqrs., Albuquerque, N. Mex.)—
John A. Adams, M. E., *Supvr.*
Jacob C. Nave, *Asst. Supvr.*
Santa Fe (Hdqrs., Santa Fe, N. Mex.)—
Frank E. Andrews, *Supvr.*
M. F. Pincetl, *Asst. Supvr.*
H. O. Cassidy, B. S., *Assoc. Range Exam.*

DISTRICT 4—Intermountain District

Utah, southern Idaho, western Wyoming, Nevada, and northwestern Arizona (Hdqrs., Ogden, Utah)—
R. H. Rutledge, *Dist. For.*
F. S. Baker, F. E., *Jr. Admin. Off.*
Finance and Accounts:
Lee Stratton, *Dist. Fiscal Agt.*
A. C. Wycoff, *Dep.*
Operation:
C. N. Woods, *Asst. Dist. For.*
C. F. Evans, B. A., M. F., *Dist. For. Insp. (minor roads, trails and improvements).*
Thomas V. Pearson, *Admin. Asst.*
State Cooperative Fire Protection under Weeks Law, Idaho:
C. B. Morse, M. S., *Asst. Dist. For.*
Forest Management:
C. B. Morse, M. S., *Asst. Dist. For.*
L. F. Watts, B. S., *Asst.*
U. S. Swartz, *Logging Engr.*
Grazing:
Ernest Winkler, *Asst. Dist. For.*
Dana Parkinson, A. B., M. F., *Insp. of Grazing.*
J. O. Stewart, *Assoc. Range Exam.*
A. R. Standing, *Jr. Range Exam.*
T. D. Phinney, *Jr. Range Exam.*
Lands:
R. E. Gery, *Asst. Dist. For.*
S. B. Locke, B. S., *Tech. Asst.*
Engineering:
J. P. Martin, C. E., *Dist. Engr.*
W. W. Blakeslee, *Asst.*
H. M. Shank, *Assoc. Civil Engr. (maps and surveys).*
J. P. Martin, C. E., *Dist. Engr. (roads).*
J. P. Martin, C. E., *Dist. Engr. (water power).*
National Forests:
ARIZONA:
Kaibab (Hdqrs., Kanab, Utah)—
Walter G. Mann, *Supvr.*
IDAHO:
Boise (Hdqrs., Boise, Idaho)—
Guy B. Mains, *Supvr.*
Arthur Potter, *Asst. Supvr.*
J. W. Stokes, *Tech. Asst.*
Felix Koziol, B. S., *Tech. Asst.*
Caribou (Hdqrs., Montpelier, Idaho)—
Earl C. Sanford, B. S., *Supvr.*
Challis (Hdqrs., Challis, Idaho)—
E. A. Renner, *Supvr.*
Idaho (Hdqrs., McCall, Idaho)—
S. C. Scribner, *Supvr.*
A. A. Casner, *Asst. Supvr.*
J. L. Rutledge, *Asst. Supvr.*
Kenneth E. Wilde, *Tech. Asst.*
Lemhi (Hdqrs., Mackay, Idaho)—
Oscar Mink, *Supvr.*
Minidoka (Hdqrs., Burley, Idaho)—
S. S. Stewart, *Supvr.*
Payette (Hdqrs., Emmett, Idaho)—
W. B. Rice, B. A., M. F., *Supvr.*
F. S. Moore, *Asst. Supvr.*
Francis Wallis, *Asst. Supvr.*
Clark Miles, *Tech. Asst.*
Thos. W. McKinley, *Tech. Asst.*
Salmon (Hdqrs., Salmon, Idaho)—
John N. Kinney, *Supvr.*
W. B. Crites, *Exec. Asst.*
H. G. McPheters, *Asst. Supvr.*
Sawtooth (Hdqrs., Hailey, Idaho)—
M. S. Benedict, *Supvr.*
Targhee (Hdqrs., St. Anthony, Idaho)—
S. W. Stoddard, *Supvr.*
David A. Arivee, B. S., *Asst. Supvr.*
Weiser (Hdqrs., Weiser, Idaho)—
John Raphael, *Supvr.*
Harley J. Helm, *Tech. Asst.*
NEVADA:
Humboldt (Hdqrs., Elko, Nev.)—
Alexander McQueen, *Supvr.*
C. E. Brackett, *Asst. Supvr.*

National Forests—Continued.
NEVADA—Continued.
Nevada (Hdqrs., Ely, Nev.)—
Chas. A. Beam, *Supvr.*
Toiyabe (Hdqrs., Austin, Nev.)—
J. W. Gurr, *Supvr.*
UTAH:
Ashley (Hdqrs., Vernal, Utah)—
A. G. Nord, *Supvr.*
Cache (Hdqrs., Logan, Utah)—
Carl B. Arentson, *Supvr.*
Wm. M. Mace, *Asst. Supvr.*
Dixie (Hdqrs., Cedar City, Utah)—
Orange A. Olsen, *Supvr.*
Fishlake (Hdqrs., Richfield, Utah)—
C. A. Mattsson, *Supvr.*
Allen C. Folster, *Asst. Supvr.*
Milo H. Deming, B. S., *Asst. Range Exam.*
La Sal (Hdqrs., Moab, Utah)—
L. T. Quigley, *Supvr.*
Manti (Hdqrs., Ephraim, Utah)—
J. W. Humphrey, *Supvr.*
S. S. Van Boskirk, B. S., *Asst. Supvr.*
Powell (Hdqrs., Panguitch, Utah)—
Wallace M. Riddle, *Supvr.*
Uinta (Hdqrs., Provo, Utah)—
Chas. DeMoisy, jr., *Supvr.*
Walter M. Campbell, *Exec. Asst.*
E. G. Wiesehuegel, B. S., *Techn. Asst.*
Wasatch (Hdqrs., Salt Lake City, Utah)—
E. C. Shepard, B. S., *Supvr.*
F. H. Eyre, B. S., *Asst. Supvr.*
WYOMING:
Teton (Hdqrs., Jackson, Wyo.)—
A. C. McCain, *Supvr.*
Wyoming (Hdqrs., Wemmerer, Wyo.)—
C. E. Favre, M. S., *Supvr.*
J. W. Farrell, B. S., *Asst. Supvr.*
P. A. Paulson, *Tech. Asst.*
C. H. McDonald, *Jr. Range Exam.*

DISTRICT 5—California District

California and southwestern Nevada. Hdqrs., San Francisco, Calif.
Stuart B. Show, A. B., M. F., *Dist. For.*
Law:
H. P. Dechant, A. B., LL. B., *Asst. to Solicitor.*
Finance and Accounts:
A. W. Smith, *Dist. Fiscal Agt.*
P. A. Tucker, *Dep.*
Operation:
Robert L. Deering, A. B., M. F., *Asst. Dist. For.*
Paul P. Pitchlynn, *Dist. For. Insp.* (*personnel, insp., and improvements*).
E. I. Kotok, M. S., *Dist. For. Insp.*
E. H. Schmieder, *Chief of Maintenance.*
C. E. Jordan, *Dist. For.*
W. A. Huestis, *Supt. of Road Const.* (*minor roads and trails*).
Frank E. Wooldridge, *Chief Surv.* (*minor roads and trails*).

Operation—Continued.
W. W. Wooldridge, *Foreman of Road Const.*
F. H. Hafley, *Telephone Engr.*
State Cooperative Fire Protection under Weeks Law, California:
E. I. Kotok, M. S., *Dist. For. Insp.*
Forest Management:
T. D. Woodbury, B. Ph., M. F., *Asst. Dist. For.*
C. E. Dunston, B. F., *Asst.*
J. H. Price, B. S., *Logging Engr.*
J. R. Berry, *Lumberman* (*logging*).
J. C. Elliott, *Lumberman* (*timber sales*).
O. M. Evans, *For. Exam.* (*timber surveys*).
Forest Pathology (in coop. with Bur. of Pl. Ind.):
E. P. Meinecke, Ph. D., *Consult. Path.*
Willis W. Wagener. A. B., *Asst.*
Forest Insect Investigations (Palo Alto, Calif.):
H. E. Burke, Ph. D., *Ent.*
J. M. Miller, *Ent.*
Grazing:
Jesse W. Nelson, *Asst. Dist. For.*
Fred P. Cronemiller, *Asst.*
Lands:
L. A. Barrett, *Asst. Dist. For.*
George Miller, *Dist. For. Insp.*
W. H. Friedhoff, E. M., *Mineral Exam.*
Research:
Duncan Dunning, M. S., *Assoc. Silv.*
Forest Products:
C. L. Hill, A. B., M. S. F., *For. in charge.*
I. V. Anderson, B. S., *Asst.*
Engineering:
F. E. Bonner, *Dist. Engr.*
E. W. Kramer, C. E., *Hydro-electrical Engr.* (*water power*).
S. H. Ketcham, E. M., *Assoc. Hydro-electrical Engr.* (*water power*).
H. A. Sedelmeyer, *Chief Draftsman.*
S. N. Stoner, *Chief Surv.* (*maps and surveys*).
Don M. Hoffman, *Surv.-draftsman* (*roads*).
Chas. L. Young, *Prin. Surv.*
Public Relations:
W. I. Hutchinson, A. B., M. F., *Asst. Dist. For.*
Paul J. Fair, *Admin. Off., in charge of exhibits.*
National Forests:
CALIFORNIA:
Angeles (Hdqrs., Los Angeles, Calif.)—
George H. Cecil, *Supvr.*
Lewis H. Anderson, *Asst. Supvr.*
California (Hdqrs., Willows, Calif.)—
J. D. Coffman, M. F., *Supvr.*
W. F. Derby, A. B., *Asst. Supvr.*
Cleveland (Hdqrs., San Diego, Calif.)—
J. E. Elliot, *Supvr.*
Eldorado (Hdqrs., Placerville, Calif.)—
E. F. Smith, *Supvr.*
Russell S. Bacon, B. S., M. S. F., *Tech. Asst.*

National Forests—Continued.

CALIFORNIA—Continued.

Inyo (Hdqrs., Bishop, Calif.)—
Roy Boothe, *Supvr.*

Klamath (Hdqrs., Yreka, Calif.)—
F. D. Douthill, *Supvr.*
Perry J. Hill, *Asst. Supvr.*
Marc W. Edmonds, B. S., *Jr. For.*

Lassen (Hdqrs., Susanville, Calif.)—
W. G. Durbin, *Supvr.*
Geo. M. Gowan, B. S., *Asst. Supvr.*
A. E. Wieslander, M. S. F., *Asst. For.*
V. S. Brown, A. B., *Sr. Lumberman.*
Bennett O. Hughes, B. S., *Jr. For.*

Modoc (Hdqrs., Alturas, Calif.)—
George W. Lyons, M. S., *Supvr.*
Orville P. Burnett, B. S., *Jr. For.*

Plumas (Hdqrs., Quincy, Calif.)—
D. N. Rogers, B. S., M. F., *Supvr.*
Jno. T. Gray, *Asst. Supvr.*
John S. Everitt, B. S., M. F., *Asst. For.*
John C. Sammi, B. S., *Jr. For.*

San Bernardino (Hdqrs., San Bernardino, Calif.)—
S. A. Nash-Boulden, *Supvr.*
Fred J. Jaken, *Asst. Supvr.*

Santa Barbara (Hdqrs., Santa Barbara, Calif.)—
Wm. V. Mendenhall, *Supvr.*
Frank A. Robinson, *Asst. Supvr.*

Sequoia (Hdqrs., Porterville, Calif.)—
F. P. Cunningham, *Supvr.*
T. C. West, *Asst. Supvr.*

Shasta (Hdqrs., Mt. Shasta, Calif.)—
Thos. J. Jones, *Supvr.*
Belknap G. Goldsmith, B. S., M. F., *Logging Engr.*
Leonard F. Kellogg, B. S., *Jr. For.*

Sierra (Hdqrs., Northfork, Calif.)—
M. A. Benedict, B. S., *Supvr.*
Walter E. Jotter, B. S., *Asst. For.*
J. E. Pemberton, jr., M. S., *Jr. For.*

Stanislaus (Hdqrs., Sonora, Calif.)—
J. R. Hall, B. S., M. S., *Supvr.*
Claude K. Barker, *Asst. Supvr.*
Russell W. Beeson, B. A., *Asst. Range Exam.*
M. R. Brundage, B. S., *Asst. For.*
Ashbel F. Hough, B. S., *Jr. Range Exam.*
Robert M. Riley, B. S., *Jr. For.*

Tahoe (Hdqrs., Nevada City, Calif.)—
R. L. P. Bigelow, *Supvr.*
Leland S. Smith, *Asst. Range Exam.*
Millard M. Barnum, *Jr. For.*
Fred J. Dooley, *Sr. Lumberman.*

Trinity (Hdqrs., Weaverville, Calif.)—
B. H. Mace, *Supvr.*
Frank Price, *Asst. Supvr.*

NEVADA:

Mono (Hdqrs., Minden, Nev.)—
Wm. M. Maule, *Supvr.*

DISTRICT 6—North Pacific District

Washington and Oregon. Hdqrs., Portland, Oreg.

C. M. Granger, B. S., *Dist. For.*

Finance and Accounts:
A. H. Cousins, *Dist. Fiscal Agt.*
H. J. Weil, *Dep.*

Operation:
A. O. Waha, *Asst. Dist. For.*
Shirley Buck, *Admin. Off.*
W. B. Osborne, jr., A. B., M. F., *Insp. (fire protection).*
F. H. Brundage, Ph. B., M. F., *Insp. (improvements).*
T. P. Flynn, *Asst. Insp.*
C. M. Allen, *Telephone Engr.*
T. M. Talbott, *Asst. Insp. (law enforcement).*

Inspection and Protection of Oregon and California Railroad Lands:
E. H. MacDaniels, A. B., M. F., *Insp. (fire coop.).*

State Cooperative Fire Protection under Weeks Law, Washington and Oregon:
E. H. MacDaniels, A. B., M. F., *Insp. (fire coop.).*
T. M. Talbott, *Asst. Insp.*

Forest Management:
Fred Ames, A. B., M. F., *Asst. Dist. For.*
W. F. Ramsdell, B. S., M. S. F., *Admin. Asst.*
Bruce E. Hoffman, B. S., *Logging Engr.*
Geo. L. Drake, B. S. F., *Lumberman.*
O. F. Ericson, A. B., M. S. F., *Assoc. Logging Engr.*
G. E. Stevenson, *Chief Lumberman (check scaling).*
Fred A. Matz, *Chief Lumberman (timber surveys).*

Planting and Forest Investigations:
J. F. Kummel, M. A., *For. Exam. (planting).*
E. J. Hanzlik, B. S. F., *For. Exam. (investigation).*

Forest Pathology (in coop. with Bur. of Pl. Ind.):
John S. Boyce, B. S., M. F., Ph. D., *Consult. Path.*
H. G. Lachmund, A. B., *Asst.*

Forest Insect Control:
A. J. Jaenicke, B. S. F., *For. Exam.*

Grazing:
E. N. Kavanagh, *Asst. Dist. For.*
J. L. Peterson, B. S. H., *Assoc. Range Exam.*

Range Investigations:
D. C. Ingram, *Assoc. Range Exam.*

Lands:
C. J. Buck, B. A., M. F., *Asst. Dist. For.*
F. W. Cleator, *Asst. Insp. (recreation).*
W. M. H. Woodward, A. M., *Mineral Exam.*
Ryle Teed, *Asst. Insp. (land exchanges).*
Adolph Nilsson, B. S., *Chief Land Exam.*

Engineering:
Philip H. Dater, A. B., B. S., *Dist. Engr.*
J. Frankland, C. E., *Assoc. Engr.* (*maps and surveys*).
Lage Wernstedt, M. E. M. F., *Chief Surv.* (*maps*).
Cecil A. Lord, B. S., *Chief Surv.* (*roads*).
Victor Flach, *Chief Draftsman.*

Products:
W. H. Gibbons, *For. Exam., in charge.*
Allen H. Hodgson, M. F., *For. Exam.*
H. M. Johnson, B. S., M. S. F., *For. Exam.*

Public Relations:
John D. Guthrie, Ph. B., M. F., *Asst. Dist. For.*
Geo. E. Griffith, *Admin. Asst.*
E. M. Stone, *Libr.*

National Forests:
OREGON:
Cascade (Hdqrs., Eugene, Oreg.)—
N. F. Macduff, B. S., *Supvr.*
R. F. Grefe, B. S. F., *Supt. of Const.*
H. E. Haefner, B. S. A., *Tech. Asst.*
Crater (Hdqrs., Medford, Oreg.)—
H. B. Rankin, *Supvr.*
Lee P. Brown, B. S. F., *Jr. For.*
W. J. Sproat, M. F., *Tech. Asst.*
Deschutes (Hdqrs., Bend., Oreg.)—
——— ———, *Supvr.*
E. J. Schlatter, B. S. F., *Jr. For.*
Leslie Colvill, B. S. F., *Jr. For.*
W. O. Harriman, A. B., *Asst. Supvr.*
Fremont (Hdqrs., Lakeview, Oreg.)—
Gilbert D. Brown, *Supvr.*
Lawrence Frizzell, *Asst. Supvr.*
W. J. Perry, *Lumberman.*
Malheur (Hdqrs., John Day, Oreg.)—
Walt L. Dutton, B. S., *Supvr.*
Carl Ewing, *Asst. Supvr.*
R. B. Pierpont, *Supt. of Const.*
R. W. Putnam, B. S., *Jr. For.*
G. H. Hutchins, *Jr. Range Exam.*
Mount Hood (Hdqrs., Portland, Oreg.)—
Thomas H. Sherrard, A. B., *Supvr.*
R. T. Carter, *Fire Asst.*
H. D. Foster, A. B., M. F., *Tech. Asst.*
Ochoco (Hdqrs., Prineville, Oreg.)—
V. V. Harpham, *Supvr.*
W. A. Donnelly, *Asst. Supvr.*
Santiam (Hdqrs., Albany, Oreg.)—
C. C. Hall, *Supvr.*
H. G. White, *Asst. Supvr.*
Siskiyou (Hdqrs., Grants Pass, Oreg.)—
A. H. Wright, *Supvr.*
A. J. Jackson, A. B., M. S. F., *Tech. Asst.*
M. M. Lewis, *Asst. Supvr.*
Siuslaw (Hdqrs., Eugene, Oreg.)—
Ralph S. Shelley, B. S., *Supvr.*
A. R. Wilcox, B. S., *Tech. Asst.*

National Forests—Continued.
OREGON—Continued.
Umatilla (Hdqrs., Pendleton, Oreg.)—
J. F. Irwin, *Supvr.*
F. V. Horton, *Asst. Supvr.*
J. M. Mann, *Supt. of Const.*
Umpqua (Hdqrs., Roseburg, Oreg.)—
Carl B. Neal, A. B., M. F., *Supvr.*
George A. Bonebrake, *Asst. Supvr.*
Donald N. Matthews, B. S. F., M. F., *Jr. For.*
Wallowa (Hdqrs., Wallowa, Oreg.)—
Nelson J. Billings, *Supvr.*
D. A. Christianson, *Jr. For.*
Whitman (Hdqrs., Baker, Oreg.)—
John C. Kuhns, *Supvr.*
P. A. Thompson, *Asst. Supvr.*
I. E. Jones, *Supt. of Const.*
F. W. Furst, B. S., *Tech. Asst.*
F. D. Monroe, B. S., *Jr. For.*
M. R. Harris, B. S., *Jr. Range Exam.*
WASHINGTON:
Chelan (Hdqrs., Okanogan, Wash.)—
P. T. Harris, A. B., M. F., *Supvr.*
G. E. Mitchell, *Asst. Supvr.*
Roy Mitchell, *Supt. of Const.*
Robert S. Maclay, B. S., *Jr. For.*
Columbia (Hdqrs., Portland, Oreg.)—
K. P. Cecil, *Supvr.*
R. A. Bottcher, *Supt. of Const.*
H. M. White, *Asst. Supvr.*
G. A. Bright, B. A., M. F., *Tech. Asst.*
Colville (Hdqrs., Republic, Wash.)—
Lawrence B. Pagter, B. A., M. F., *Supvr.*
Lloyd L. Houghland, *Supt. of Const.*
T. H. Burgess, B. S., *Jr. For.*
Mount Baker (Hdqrs., Bellingham, Wash.)—
C. H. Park, *Supvr.*
R. L. Campbell, *Asst. Supvr.*
D. J. Stoner, B. S. F., *Jr. For.*
Olympic (Hdqrs., Olympia, Wash.)—
H. L. Plumb, A. B., M. S. F., *Supvr.*
J. H. Billingslea, B. S., *Asst. Supvr.*
Rainier (Hdqrs., Tacoma, Wash.)—
E. J. Fenby, *Supvr.*
J. L. Campbell, *Asst. Supvr.*
E. R. Johnson, *Supt. of Const.*
Lester Moncrief, B. S. F., *Jr. For.*
Snoqualmie (Hdqrs., Seattle, Wash.)—
W. G. Weigle, M. F., *Supvr.*
Lewis A. Treen, jr., B. S. F., *Asst. Supvr.*
F. B. Myers, B. S., M. F., *Tech. Asst.*
H. R. Spelman, B. S., M. F., *Jr. For.*
J. H. Buell, B. S., M. F., *Jr. For.*
Wenatchee (Hdqrs., Wenatchee, Wash.)—
A. H. Sylvester, B. S., *Supvr.*
C. J. Conover, B. S., M. S. F., *Tech. Asst.*
F. G. Renner, B. S. F., *Jr. Range Exam.*

DISTRICT 7—Eastern District

Alabama, Arkansas, Florida, Georgia, Maine, New Hampshire, New Jersey, North Carolina, Oklahoma, Pennsylvania, Porto Rico, South Carolina, Tennessee, Virginia, and West Virginia. Hdqrs., Washington, D. C.

Evan W. Kelley, *Dist. For.*

Finance and Accounts:
- M. E. Fagan, *Dist. Fiscal Agt.*

Operation:
- H. O. Stabler, M. F., *Asst. Dist. For.*

Forest Management:
- R. M. Evans, B. A., M. F., *Asst. Dist. For.*
- Arnold C. Shaw, *Asst.*

Grazing:
- Clinton G. Smith, B. S., M. F., *Asst. Dist. For.*

Lands:
- C. G. Smith, B. S., M. F., *Asst. Dist. For.*
- W. W. Ashe, M. S., *Asst. Dist. For., Secy., Nat. For. Reserv. Comm.*
- Percy J. Paxton, *Dist. For. Insp.*

Engineering:
- J. C. Dort, B. S., *Dist. Engr.*
- Rezin E. Pidgeon, *Asst. Dist. Engr.*
- Geo. W Root, *Admin. Asst.*

Public Relations:
- James E. Scott, *Asst. Dist. For.*
- E. Murray Bruner, M. A., M. S., *Dist. For. Insp.*, Asheville, N. C.

National Forests:

ALABAMA:
- Alabama (Hdqrs., Columbus, Ga.)—
  - H. Norton Cape, *Supvr.*
  - John B. Byrne, *Ranger.*

ARKANSAS:
- Arkansas (Hdqrs., Hot Springs Natl. Park, Ark.)—
  - Chas. A. Plymale, *Supvr.*
  - A. J. Streinz, B. S., *Asst. Supvr.*
  - Emmett B. Hurst, B. S., *Jr. For.*
  - Philip H. Bryan, *Jr. For.*
  - Glen R. Durrell, *Ranger.*
  - Wm. C. Hammerle, *Ranger*
  - Ralph B. Heberling, *Ranger.*
  - Wayne A. McNees, *Ranger.*
- Ozark (Hdqrs., Russellville, Ark.)—
  - Henry R. Koen, *Supvr.*
  - Ben F. Vaughn, *Asst. Supvr.*
  - James S. Long, *Jr. For.*
- Lee (Hdqrs., Washington, D. C.)—
  - Lawrence S. Gross, *Jr. For.*

FLORIDA:
- Florida (Hdqrs., Pensacola, Fla.)—
  - Wm. F. Hill, *Supvr.*

NEW HAMPSHIRE:
- White Mountain (Hdqrs., Gorham, N. H.)—
  - Ira T. Yarnell, B. S., *Supvr.*
  - H. R. Currier, *Asst. Supvr.*
  - Wallace D. Black, A. B., M. F., *Jr. For.*
  - Ralph W. Smith, *Jr. For.*

National Forests—Continued.

NEW JERSEY:
- Dix (Hdqrs., Browns Mills, N. J.)—
  - Everett B. Stone, *Asst. For. Supvr.*

NORTH CAROLINA:
- Nantahala (Hdqrs., Franklin, N. C.)—
  - Robt. W. Shields, B. F., *Supvr.*
  - John Wasilik, jr., M. F., Ph. B., *Asst. Supvr.*
- Pisgah (Hdqrs., Asheville, N. C.)—
  - M. A. Mattoon, *Supvr.*
  - John W. McNair, *Asst. Supvr.*
  - Wm. K. Beichler, *Ranger.*

OKLAHOMA:
- Wichita (Hdqrs., Cache, Okla.)—
  - Samuel M. Shanklin, *Supvr.*

PENNSYLVANIA:
- Allegheny (Hdqrs., Warren, Pa.)—
  - L. L. Bishop, B. S., *Supvr.*
  - W. I. Stevens, *Jr. For.*
  - Arthur A. Riemer, *Chief Land Exam.*

PORTO RICO:
- Luquillo (Hdqrs., Rio Piedras, P. R.)—
  - Wm. P. Kramer, B. F., *Jr. For.*

TENNESSEE:
- Cherokee (Hdqrs., Knoxville, Tenn.)—
  - R. H. Charlton, *Supvr.*
  - James Denman, *Chief Land Exam.*
  - Fred C. Henneberger, *Jr. For.*
  - Lewis R. Smith, *Jr. For.*
  - Norman P. White, B. S., *Jr. For.*
- Unaka (Hdqrs., Bristol, Tenn.)—
  - Sam R. Broadbent, *Supvr.*
  - Alfred R. Kinney, *Chief Land Exam.*
  - C. E. Beaumont, *Asst. For.*

VIRGINIA:
- Natural Bridge (Hdqrs., Lynchburg, Va.)—
  - H. M. Sears, *Supvr.*
  - David W. Tabbutt, *Jr. For.*
  - Harold L. Russell, A. B., M. F., *Asst. For.*
- Shenandoah (Hdqrs., Harrisonburg, Va.)—
  - S. H. Marsh, A. B., M. F., *Supvr.*
  - E. R. Conrad, *Chief Land Exam.*
  - Harry True, *Chief Land Exam.*
  - Walter J. Quick, jr., *Ranger.*

WEST VIRGINIA:
- Monongahela (Hdqrs., Elkins, W. Va.)—
  - C. L. Perkins, B. S., *Supvr.*

DISTRICT 8—Alaska District

Alaska. Hdqrs., Juneau.

Chas. H. Flory, B. S., *Dist. For.*

Finance and Accounts:
- H. L. Redlingshafer, *Dist. Fiscal Agt.*

Operation:
- M. L. Merritt, M. S., *Asst. Dist. For.*
- Harry Sperling, *Chief of Maintenance.*

Forest Management:
- B. F. Heintzleman, M. F., *Asst. Dist. For.*
- J. P. Williams, *For. Exam.* (*timber surveys*).

Lands:
M. L. Merritt, M. S., *Asst. Dist. For.*
Wellman Holbrook, *For. Exam.*
Engineering:
M. L. Merritt, M. S., *Asst. Dist. For (roads).*
B. F. Heintzleman, M. F., *Asst. Dist. For. (water power).*
National Forests:
Alaska:
Chugach (Hdqrs., Cordova, Alaska)—
W. J. McDonald, *Supvr.*

National Forests—Continued.
Alaska—Continued.
Chugach—Continued.
H. J. Lutz, B. S., *Jr. For.*
L. C. Pratt, *Exec. Asst.*
Tongass (Hdqrs., Ketchikan, Alaska)—
Robert A. Zeller, B. S., *Supvr.*
J. M. Walley, B. S., *For. Exam.*
W. C. Keyes, *Exec. Asst.*
L. W. Blodgett, *Port Engr.*
Bernard Aikens, *Pilot and Gas Engr.*

BUREAU OF CHEMISTRY

C. A. Browne, Ph. D., *Chief.*
W. W. Skinner, Sc. D., *Asst. Chief.*
P. B. Dunbar, Ph. D., *Asst. Chief.*

GENERAL ADMINISTRATION

R. W. Balcom, Ph. D., *Chem.*
F. B. Linton, *Asst. to Chief.*
C. W. Crawford, M. S., *Chem.*
Martin Boyle, B. S., LL. B., *Assoc. Chem.*
W. L. Hanaway, B. S., *Asst. Chem.*
Katharine A. Smith, A. B., *Ed.*

DEVELOPMENT WORK

D. J. Price, B. S., M. E., *Engr., in charge.*
H. R. Brown, B. S., *Asst. Engr.*
P. W. Edwards, B. S., *Asst. Engr.*
W. A. Noel, B. S., M. E., *Asst. Engr.*
J. O. Reed, B. S., *Asst. Engr.*

ANALYTICAL REAGENTS INVESTIGATIONS

G. C. Spencer, Ph. D., *Assoc. Chem., in charge.*
L. J. Jenkins, *Asst. Sci. Aid.*

CARBOHYDRATE INVESTIGATIONS

H. S. Paine, B. S., *Sr. Chem., in charge.*
J. A. Ambler, Ph. D., *Assoc. Chem.*
D. H. Brauns, Ph. D., *Assoc. Chem.*
R. T. Balch, A. M., *Assoc. Chem.*
Victor Birckner, Ph. D., *Asst. Chem.*
M. S. Badollet, M. S., *Asst. Chem.*
L. E. Dawson, B. S., *Asst. Chem.*
J. C. Keane, A. B., *Asst. Chem.*
J. Hamilton, *Sci. Aid.*

COLOR INVESTIGATIONS

H. T. Herrick, Ch. E., *Chem., in charge.*
C. E. Senseman, A. M., *Assoc. Chem.*
W. C. Holmes, A. B., *Assoc. Chem.*
D. F. J. Lynch, A. M., *Assoc. Chem.*
O. L. Evenson, A. M., *Asst. Chem.*
J. F. T. Berliner, Ph. D., *Asst. Chem.*
J. T. Scanlan, B. S., *Asst. Chem.*
O. E. May, B. S., *Jr. Chem.*
M. J. Goss, *Asst. Sci. Aid.*

CROP CHEMISTRY INVESTIGATIONS

E. T. Wheery, Ph. D., *Sr. Chem., in charge.*
Jehiel Davidson, Ph. D., *Assoc. Chem.*
Ruth G. Capen, A. B., *Jr. Chem.*
J. G. Wangler, M. S., *Jr. Chem.*

FRUIT AND VEGETABLE CHEMISTRY INVESTIGATIONS

(Los Angeles, Calif.)

E. M. Chace, LL. M., *Chem., in charge.*
W. B. Davis, Ph. D., *Assoc. Chem.*
C. G. Church, M. S., *Asst. Chem.*
H. D. Poore, B. S., *Asst. Chem.*

LEATHER AND PAPER INVESTIGATIONS

F. P. Veitch, Sc. D., *Sr. Chem., in charge.*
H. P. Holman, A. B., *Chem.*
Leather and Tanning Materials:
R. W. Frey, B. S., *Assoc. Chem.*
I. D. Clarke, A. B, *Asst. Chem.*
L. R. Leinbach, B. S., *Jr. Chem.*
W. D. Edington, A. B., *Jr. Chem.*
Paper:
T. D. Jarrell, M. S., *Asst. Chem.*

NAVAL STORES INVESTIGATIONS

F. P. Veitch, Ss. D., *Sr. Chem., in charge.*
V. E. Grotlisch, Ch. E., *Assoc. Naval Stores Classifier.*
R. L. Helveston, *Asst. Naval Stores Classifier.*
G. P. Shingler, B. S., *Assoc. Chem.*
W. C. Smith, A. B., *Jr. Chem.*
W. K. Ward, jr., B. S., *Jr. Chem.*

OIL, FAT, AND WAX INVESTIGATIONS

G. S. Jamieson, Ph. D., *Chem., in charge.*
W. F. Baughman, B. S., *Assoc. Chem.*
R. M. Hann, B. S., *Asst. Chem.*

PHYTOCHEMICAL INVESTIGATIONS

F. B. Power, Phar. M., Ph. D., LL. D., *Sr. Chem., in charge.*

PROTEIN INVESTIGATIONS

D. B. Jones, Ph. D., *Sr. Chem., in charge.*
L. H. Almy, Ph. D., *Chem.*
F. A. Csonka, Ph. D., *Assoc. Chem.*
E. M. Nelson, Ph. D., *Assoc. Chem.*
J. C. Murphy, B. Ch. E., *Jr. Chem.*
C. E. F. Gersdorff, *Asst. Sci. Aid.*
J. P. Divine, *Asst. Sci. Aid.*
O. Moeller, *Asst. Sci. Aid.*

SPECIAL COLLABORATIVE INVESTIGATIONS

L. F. Kebler, M. D., M. S., *Chem., in charge.*
W. O. Emery, Ph. D., *Chem.*
E. K. Nelson, B. S., *Chem.*
V. K. Chestnut, B. S., *Assoc. Chem.*
C. D. Wright, Ph. D., *Asst. Chem.*
W. F. Kunke, B. S., *Asst. Chem.*

DRUG CONTROL

A. G. Murray, A. B., *Assoc. Chem., Acting in charge.*
Lewis E. Warren, B. S., *Chem.*
W. H. Callahan, M. D., *Assoc. Med. Off.*
J. S. Jamieson, M. D., *Assoc. Med. Off.*
Samuel Palkin, Ph. D., *Assoc. Chem.*
Horatio Wales, Ph. D., *Assoc. Chem.*
W. Frank Galatzo, M. D., *Asst. Med. Off.*
H. R. Watkins, M. S., *Asst. Chem.*
J. F. Clevenger, A. M., *Asst in Pl. Histology.*

FOOD CONTROL

F. C. Blanck, Ph. D., *Sr. Chem., in charge.*
B. G. Hartmann, Ph. D., *Chem.*
V. B. Bonney, B. S., *Assoc. Chem.*
H A. Lepper, B. S., *Assoc. Chem.*
J. C. Palmer, B. S., Ph. C., *Assoc. Chem.*
J. B. Reed, A. B., *Assoc. Chem.*
W. F. Clarke, Ph. D., *Asst. Chem.*
Fred Hillig, B. S., *Asst. Chem.*
J. T. Keister, M. S., Phar. D., *Asst. Chem.*
L. H. Bailey, A. B., *Asst. Chem.*
J. I. Palmore, M. S., *Asst. Chem.*
C. E. Goodrich, A. B., *Jr. Chem.*
H. C. Waterman, B. S., *Jr. Chem.*

MICROBIOLOGICAL INVESTIGATIONS

Charles Thom, Ph. D., *Sr. Mycol., in charge.*
A. C. Hunter, Ph. D., *Assoc. Bact.*
L. P. Shippen, M. D., *Assoc. Bact.*
Edwin LeFevre, M. D., *Asst. Bact.*
Margaret B. Church, Ph. D., *Asst. Mycologist.*
L. H. James, B. S., *Jr. Bact.*
B. A. Linden, *Jr. Bact.*
W. B. Turner, M. S., *Jr. Bact.*

MICROCHEMICAL INVESTIGATIONS

B. J. Howard. B. S., *Sr. Micros., in charge.*
E. Alberta Read, Ph. D., M. D., *Microan.*
G. L. Keenan, A. M., *Assoc. Microan.*
C. H. Stephenson, B. S., *Assoc. Microan.*
Vinnie A. Pease, Ph. D., *Asst. Microan.*

MISCELLANEOUS INVESTIGATIONS

J. K. Haywood, M. D., *Chief.*
Cattle Food and Grain Investigations:
G. L. Bidwell, B. S., *Assoc. Chem., in charge.*
M. R. Coe, B. S., *Asst. Chem.*
R. S. McKinney, B. S., *Jr. Chem.*
W. F. Sterling, B. S., *Jr. Chem.*
Insecticide and Fungicide Investigations:
C. C. McDonnell, Sc. D., *Sr. Chem., in charge.*
W. D. Lynch, B. S., LL. B., *Chem.*
C. M. Smith, B. S., *Chem.*
E. L. Griffin, Ph. D., *Assoc. Chem.*
J. J. T. Graham, M. S., *Assoc. Chem.*
R. C. Roark, Ph. D., *Assoc. Chem.*
F. B. LaForge, Ph. D., *Assoc. Chem.*
O. A. Nelson, M. S., *Assoc. Chem.*
C. R. Smith, B. S., *Assoc. Chem.*
W. J. Morgan, M. S., *Assoc. Chem.*
G. F. Reddish, Ph. D., *Assoc. Bact.*
A. C. Nothstine, B. S., *Assoc. Chem.*
W. A. Gersdorff, M. S., *Asst. Chem.*
H. D. Young, B. S., *Asst. Chem.*
F. L. Hart, A. M., *Asst. Chem.*
L. N. Markwood, B. S., *Asst. Chem.*
J. W. Barnes, M. S., *Asst. Chem.*
R. Jinkins, M. S., *Asst. Chem.*
N. P. Bekkedahl, B. S., *Jr. Chem.*
C. M. Brewer, B. S., *Jr. Bact.*
J. C. Bubb, B. S., *Jr. Chem.*
G. W. Kirby, B. Ch. E., *Jr. Chem.*
N. L. Knight, B. S., *Jr. Chem.*
Q. Landis, B. S., *Jr. Chem.*

PHARMACOLOGICAL INVESTIGATIONS

E. W. Schwartze, M. D., *Assoc. Pharmacol., in charge.*
J. C. Munch, Ph. D., *Asst. Pharmacol.*
N. G. Barbella, *Asst. Sci. Aid.*
Georgiana S. Gittinger, *Asst. Sci. Aid.*

WATER AND BEVERAGE INVESTIGATIONS

J. W. Sale, M. A., *Chem., in charge.*
J. B. Wilson, A. B., *Assoc. Chem.*
C. H. Badger, B. S., *Jr. Chem.*
Anna E. Mix, Phar. D., *Jr. Chem.*

IMPORT INSPECTION

A. E. Taylor, Ph. D., *Chem., in charge.*
Arthur Stengel, Ph. G., *Assoc. Admin. Officer.*

STATE COOPERATION

W. S. Frisbie, Ph. B., *Sr. Chem., in charge.*

DEFINITIONS AND STANDARDS

A. S. Mitchell, M. S., Ph. C., *Secy. to Committee.*

TEA INSPECTION

G. F. Mitchell, B. S., *Supervising Tea Exam.*

FIELD HEADQUARTERS:
- California—San Francisco:
  - Cornelius Toohey, *Tea Exam.*
- Hawaii—Honolulu:
  - E. H. Boyen, *Tea Exam.*
- Illinois—Chicago:
  - H. F. Brown, *Tea Exam.*
- Massachusetts—Boston:
  - E. C. Griswold, *Tea Exam.*
- New York—New York:
  - C. F. Hutchinson, *Tea Exam.*
- Washington—Tacoma:
  - L. G. Fenton, *Tea Exam.*

FOOD AND DRUG INSPECTION

Eastern District (Hdqrs., New York, N. Y.):
- W. R. M. Wharton, A. M., *Chief of Dist.*

STATIONS:
- Georgia—Savannah:
  - J. J. McManus, Ph. G., Phar. D., *Chief of Sta.*
- Maryland—Baltimore:
  - D. M. Walsh, A. M., *Chief of Sta.*
- Massachusetts—Boston:
  - G. H. Adams, Ph. G., *Chief of Sta.*

Eastern District—Continued.

STATIONS—Continued.
- New York—
  - Buffalo:
    - F. L. Wollard, *Chief of Sta.*
  - New York:
    - J. O. Clarke, B. S., *Chief of Sta.*
- Porto Rico—San Juan:
  - W. J. McGee, B. S., *Chief of Sta.*

Central District (Hdqrs., Chicago, Ill.):
- G. W. Hoover, M. D., M. S., *Chief of Dist.*

STATIONS:
- Illinois—Chicago:
  - A. E. Paul, M. S., *Chief of Sta.*
- Louisiana—New Orleans:
  - E. C. Boudreaux, A. B., *Acting Chief of Sta.*
- Minnesota—Minneapolis:
  - Homer Runkel, B. S., *Chief of Sta.*
- Missouri—
  - Kansas City:
    - W. H. Hartigan, Ph. C., *Acting Chief of Sta.*
  - St. Louis:
    - E. R. Smith, *Chief of Sta.*
- Ohio—Cincinnati:
  - H. D. Garrett, *Chief of Sta.*

Western District (Hdqrs., San Francisco, Calif.):
- Wendell Vincent, A. B., *Chief of Dist.*

STATIONS:
- California—San Francisco:
  - G. J. Morton, B. S., *Chief of Sta.*
- Colorado—Denver:
  - L. D. Elliott, Ph. D., *Chief of Sta.*
- Washington—Seattle:
  - A. W. Hansen, M. S., *Chief of Sta.*

BUREAU OF SOILS

Milton Whitney, D. A., *Chief.*
A. G. Rice, *Asst. to Chief.*
Henry A. Donovan, *Chief Clerk.*

SOIL PHYSICS DIVISION

R. O. E. Davis, Ph. D., *Chief.*

Physical Soil Characteristics:
- L. B. Olmstead, B. S., A. M., *Assoc. Phys.*
- H. E. Middleton, M. S., *Asst. Phys.*
- J. R. Adams, B. Chem., *Asst. Phys.*

Mechanical Soil Analysis:
- J. B. Spencer, *Asst. Sci. Aid, in charge.*
- V. J, Jacquot, jr., *Under Sci. Helper.*
- R. W. Mahorney, *Under Sci. Helper.*

SOIL CHEMICAL DIVISION

Philip L. Gile, A. B., *Chief.*

Research in Soil Chemistry:
- M. S. Anderson, A. B., M. S., Ph. D., *Assoc. Chem.*
- Irving A. Denison, M. S., *Asst Chem.*
- Robert S. Holmes, A. B., *Asst. Chem.*
- W. O. Robinson, M. S., *Assoc. Chem.*
- J. G. Smith, M. S., *Asst. Chem.*

Soil Mineralogy and Petrography:
- W. H. Fry, A. B., *Assoc. Soil Petrographer.*

Soil Analysis:
- Glen Edgington, B. S., *Asst. Chem.*
- G. J. Hough, B. S., *Asst. Chem.*

FERTILIZER RESOURCES DIVISION

Phosphate Investigations:
- ——— ———, Chief.
- K. D. Jacob, B. S., *Assoc. Chem., in charge.*
- D. S. Reynolds, B. S., *Jr. Chem.*

Potash Investigations:
- J. W. Turrentine, M. S., Ph. D., *Chem., in charge.*
- Edward J. Fox, A. B., *Asst. Chem.*
- Colin W. Whittaker, A. B., M. S., *Asst. Chem.*

Concentrated Fertilizer Investigations:
- William H. Ross, M. S., Ph. D., *Chem., in charge.*

Concentrated Fertilizer Investigations—Con.
Albert R. Merz, M. S., Ph. D., *Assoc. Chem.*
Russell M. Jones, B. S., *Asst. Chem.*
Arnon L. Mehring, A. B., *Asst. Chem.*
Miscellaneous Soil Amendments:
C. C. Fletcher, M. D., *Assoc. Chem., in charge.*
James B. Martin, A. B., M. S., *Asst. Chem.*
Organic Nitrogen Investigations:
George P. Walton, M. S., *Assoc. Chem., in charge.*
Robert F. Gardiner, M. S., *Asst. Chem.*
Routine Analysis Laboratory:
Frank O. Lundstrom, A. B., *Asst. Chem.*
Mechanical and Electrical Engineering:
Harry Bryan, *Assoc. Mech. Engr., in charge.*

SOIL SURVEY DIVISION

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George W. Baumann, *Jr. Admin. Asst.*
Mark Baldwin, B. S., *Insp., Dist. 1.*
W. E. Hearn, B. S., *Insp., Dist. 2.*
T. D. Rice, Ph. B., *Insp., Dist. 3.*
H. H. Bennett, B. S., *Insp., Dist. 4.*
M. H. Lapham, B. S., *Insp., Dist. 5.*
W. W. Weir, M. S., Ph. D., *Assoc. Soil Tech.*
J. E. Lapham, *Assoc. Soil Tech.*
W. J. Geib, *Sci. in Soil Surv.*
C. C. Bassett, *Assoc. Artographer.*
E. M. Eastwood, *Assoc. Artigrapher.*
A. C. Anderson, B. S., *Asst. Soil Surv.*
M. W. Beck, B. S., *Asst. Soil Surv.*
R. T. Avon Burke, *Asst. Soil Surv.*
E. J. Carpenter, B. S., *Asst. Soil Surv.*
W. T. Carter, jr., B. S., *Assoc. Soil Sci.*
E. B. Deeter, B. S., *Asst. Soil Surv.*
J. A. Elwell, B. S., *Asst. Soil Surv.*
E. D. Fowler, B. S., *Asst. Soil Surv.*
L. F. Gieseker, *Asst. Soil Surv.*
F. A. Hayes, B. S., A. M., *Asst. Soil Surv.*
B. H. Hendrickson, B. S., *Asst. Soil Surv.*
R. C. Jurney, A. B., *Asst. Soil Surv.*
E. W. Knobel, B. S., *Asst. Soil Surv.*
A. E. Kocher, B. S., *Assoc. Soil Sci.*
W. J. Latimer, B. S., *Asst. Soil Surv.*
H. G. Lewis, A. B., *Asst. Soil Surv.*
C. Lounsbury, B. S., *Asst. Soil Surv.*
S. O. Perkins, B. S., *Asst. Soil. Surv.*
S. W. Phillips, M. S., *Asst. Soil Surv.*
A. T. Strahorn, B. S., *Assoc. Soil Sci.*
A. T. Sweet, B. S., *Assoc. Soil Sci.*
A. E. Taylor, Ph. B., *Asst. Soil Surv.*
W. E. Tharp, *Asst. Soil Surv.*
W. I. Watkins, B. S., *Asst. Soil Surv.*
R. Wildermuth, B. S., *Asst. Soil Surv.*
L. A. Wolfanger, B. S., *Asst. Soil Surv.*
E. H. Bailey, M. S., *Jr. Soil Surv.*
R. E. Devereux, A. B., *Jr. Soil Surv.*
M. J. Edwards, *Jr. Soil Surv.*
T. W. Glassey, *Jr. Soil Surv.*
A. W. Goke, B. S., *Jr. Soil Surv.*
A. L. Gray, B. S., *Jr. Soil Surv.*
W. G. Harper, B. S., *Jr. Soil Surv.*
W. D. Lee, B. S., *Jr. Soil Surv.*
F. R. Lesh, *Jr. Soil Surv.*
A. H. Hasty, *Jr. Soil Surv.*
J. W. Moon, B. S., *Jr. Soil Surv.*
C. S. Simmons, *Jr. Soil Surv.*
H. M. Smith, B. S., *Jr. Soil Surv.*
B. H. Williams, B. S., *Jr. Soil Surv.*
F. O. Youngs, B. S., *Jr. Soil Surv.*
J. A. Chucka, *Asst. Sci. Aid.*
E. G. Fitzpatrick, *Asst. Sci. Aid.*
E. H. Poulson, *Asst. Sci. Aid.*
G. A. Swenson, *Asst. Sci. Aid.*
D. F. Trussell, *Asst. Sci. Aid.*
J. H. Zentmire, *Asst. Sci. Aid.*

FIXED NITROGEN RESEARCH LABORATORY

F. G. Cottrell, Ph. D., *Dir.*
S. C. Lind, Ph. D., *Assoc. Dir.*
D. C. Bardwell, Ph. D., *Assoc. Phys. Chem.*

ADMINISTRATIVE DIVISION

G. T. Ash, *Admin. Asst.*
L. D. Gittings, A. B., *Purchase Agt.*
O. L. Helsley, *Sr. Clerk, in charge of Acct.*
W. C. Bray, Ph. D., *Consult. Chem.*
C. O. Brown, *Consult. Chem.*
K. T. Compton, Ph. D., *Consult. Chem.*
F. Daniels, Ph. D., *Consult. Chem.*
G. Edgar, Ph. D., *Consult. Chem.*
D. St. P. Gaillard, C. E., *Consult. Engr.*
N. W. Krase, M. S., *Consult. Chem.*
C. A. Kraus, Ph. D., *Consult. Chem.*
A. B. Lamb, Ph. D., *Consult. Chem.*
A. T. Larson, Ph. D., *Consult. Chem.*
P. McMichael, *Consult. Chem. Engr.*
E. K. Rideal, Ph. D., *Consult. Chem.*
W. F. Rittman, Ph. D., *Consult. Chem. Engr.*
F. E. Smith, B. S., *Consult. Chem.*
R. C. Tolman, Ph. D., *Consult. Chem.*
J. S. Vanick, B. S., *Consult. Metallurgist.*

CHEMISTRY DIVISION

J. A. Almquist, Ph. D., *Chem., acting in charge.*
F. E. Allison, Ph. D., *Chem.*
H. J. Krase, M. S., *Assoc. Chem. Engr.*
M. F. Fogler, Ph. D., *Assoc. Chem.*
E. W. Guernsey, Ph. D., *Assoc. Chem. Engr.*
J. G. Thompson, Ph. D., *Assoc. Chem.*
H. C. Hetherington, A. M., *Assoc. Chem.*
C. D. Garby, Ph. D., *Asst. Chem.*
J. Y. Yee, M. S., *Asst. Chem.*
L. A. Pinck, M. S., *Asst. Chem.*
A. X. Illinski, B. S., *Asst. Chem.*
C. F. Weston, B. S., *Asst. Chem.*

K. G. Clark, B. S., *Jr. Chem.*
V. L. Gaddy, *Jr. Chem.*
Mildred S. Sherman, M. S., *Jr. Chem.*
Mary K. Murray, B. S., *Jr. Chem.*

SYNTHETIC AMMONIA DIVISION

J. A. Almquist, Ph. D., *Chem., in charge.*
E. P. Bartlett, Ph. D., *Assoc. Chem.*
E. C. White, Ph. D., *Assoc. Chem.*
E. D. Crittenden, Ph. D., *Assoc. Chem.*
M. C. Molstad, A. B., B. S., *Asst. Chem.*
W. E. Kuentzel, M. S., *Asst. Chem. Engr.*
W. L. Newton, M. A., *Asst. Chem.*
C. M. Sullivan, B. S., *Asst. Chem. Engr.*
C. A. Black, M. S., *Jr. Chem. Engr.*
W. Hawkins, *Jr. Chem. Engr.*
J. F. Shultz, B. S., *Jr. Chem.*
Katharine S. Love, A. B., *Jr. Chem.*
T. H. Tremearne, *Asst. Sci. Aid.*

PHYSICS DIVISION

S. Karrer, Ph. D., *Phys., in charge.*
C. H. Kunsman, Ph. D., *Phys.*
E. H. Johnston, *Jr. Chem.*
R. A. Nelson, *Minor Lab. Apprentice.*
R. J. Connor, *Minor Lab. Apprentice.*

ENGINEERING DIVISION

F. A. Ernst, C. E., *Sr. Chem. Engr. in charge.*
F. C. Reed, B. S. in M. E., *Mech. Engr.*
F. J. Berchtold, *Chief Custodian.*
W. L. Edwards, C. E., *Assoc. Engr.*
J R. Dilley, M. E., *Assoc. Mech. Engr.*
J. D. Houghton, B. S. in M. E., *Prin. Engr. Draftsman.*
C. Camburn, *Asst. Drafstman.*

BUREAU OF ENTOMOLOGY

L. O. Howard, M. S., Ph. D., M. D., LL. D., Sc. D., *Chief.*
C. L. Marlatt, M. S., Sc. D., *Assoc. Chief, in charge of regulatory work.*
A. L. Quaintance, M. S., D. Sc., *Assoc. Chief, in charge of research.*
E. B. O'Leary, *Sr. Admin. Asst., in charge of admin. off.*
Rolla P. Currie, B. A., *Assoc. Ent., in charge of ed. work.*
Mabel Colcord, A. B., B. L. S., *Assoc. Libr., in charge of libr.*

DECIDUOUS-FRUIT INSECTS

A. L. Quaintance, M. S., D. Sc., *Assoc. Chief of Bureau, in charge.*
Eva Baldwin Fitzgerald, B. A., *Sci. Illustr.*
Abby Holdridge, *Jr. Sci. Aid.*

Orchard Insecticides:
N. E. McIndoo, A. M., Ph. D., *Ent.*
C. H. Richardson, M. S., Ph. D., *Ent.*
Carlo Zeimet, *Asst. Bibl. Ent.*
Robert C. Burdette, M. S., *Jr. Ent.*

Apple Insects:
P. W. Mason, M. S., Ph. D., *Assoc. Ent. (aphid studies).*

FIELD STATIONS:
Arkansas—Bentonville:
A. J. Ackerman, B. S., *Assoc. Ent., in charge.*
Indiana—Vincennes:
B. A. Porter, B. S., Ph. D., *Assoc. Ent., in charge.*
R. F. Sazama, B. S., *Jr. Ent.*
Kansas—Wichita:
Paul M. Gilmer, A. B., Ph. D., *Assoc. Ent., in charge.*
Maryland—Silver Spring:
E. H. Siegler, B. S., *Assoc. Ent., in charge.*
Luther Brown, B. S., *Asst. Ent.*
Washington—Yakima:
E. J. Newcomer, A. B., *Assoc. Ent., in charge.*
M. A. Yothers, M. S., *Assoc. Ent.*

Grape Insects:

FIELD STATION:
Ohio—Sandusky:
G. A. Runner, *Assoc. Ent., in charge.*

Nut Insects:

FIELD STATIONS:
Georgia—Thomasville:
G. F. Moznette, B. S., *Assoc. Ent., in charge.*
T. L. Bissell, B. S., *Asst. Ent.*
Texas—Brownwood (branch of Thomasville, Ga., sta.)
H. S. Adair, B. S., *Jr. Ent.*
West Virginia—French Creek:
F. E. Brooks, *Assoc. Ent., in charge.*

Peach Insects:

FIELD STATIONS:
Georgia—Fort Valley:
O. I. Snapp, B. S., *Assoc. Ent., in charge.*
C. H. Alden, B. S., *Asst. Ent.*
H. S. Swingle, M. S., *Asst. Ent.*
New Jersey—Riverton:
Alvah Peterson, B. S., M. A., Ph. D., *Ent., in charge of peach moth inv.*
G. J. Haeussler, B. S., *Jr. Ent.*

Orchard Insect Survey:

FIELD STATION:
Maryland—Silver Spring:
R. E. Snodgrass, A. B., *Assoc. Ent., in charge of insect morphology.*

Blueberry Maggot:
FIELD STATION:
Maine—Harrington:
F. H. Lathrop, B. S., Ph. D., *Ent., in charge.*
C. B. Nickels, B. S., M. S., *Asst. Ent.*

Enforcement of Insecticide Act:
FIELD STATION:
Virginia—Vienna:
W. S. Abbott, B. S., *Ent., in charge.*
W. M. Davidson, B. S., *Asst. Ent.*

CEREAL AND FORAGE INSECTS

W. H. Larrimer, M. S., Ph. D., *Ent., in charge.*
W. R. Walton, *Ent.*
J. S. Wade, *Assoc. Ent.*
Esther H. Hart, A. B., *Prin. Sci. Illustr.*
Nettie S. Klopfer, *Under Sci. Helper.*

General Cereal and Forage Insects:
FIELD STATIONS:
Arizona—
Tempe (clover and alfalfa seed chalcis, corn earworm, alfalfa caterpillar, grasshoppers, and plant-lice):
V. L. Wildermuth, B. S., *Assoc. Ent., in charge.*
E. V. Walter, B. S., *Asst. Ent.*
Francis M. Jones, *Under Sci. Helper.*
Yuma (branch of Tempe, Ariz., sta.):
E. E. Russell, *Asst. Ent.*
California—Sacramento (grasshoppers, Hessian fly, wireworms, and range craneflies):
C. M. Packard, M. S., *Assoc. Ent., in charge.*
C. C. Wilson, B. S., *Jr. Ent.*
Illinois—Centralia (branch of West Lafayette, Ind., sta.):
Curtis Benton, M. S., *Jr. Ent.*
Indiana—West Lafayette (Hessian fly, sod webworms, lesser clover leaf weevil, grasshoppers, and chinch bug):
W. B. Cartwright, B. S., *Assoc. Ent., in charge.*
H. R. Painter, M. S., *Asst. Ent.*
W. B. Noble, B. S., *Jr. Ent.*
Iowa—Sioux City (pale western cutworm, chinch bug, Hessian fly, and wheat stem sawfly):
C. N. Ainslie, M. A., *Asst. Ent., in charge.*
Kansas—Wichita (Hessian fly, chinch bug, green bug, white grubs, and false wireworms):
J. R. Horton, B. S., *Assoc. Ent., in charge.*
J. S. Pinkney, B. S., *Jr. Ent.*
H. H. Walkden, B. S., *Jr. Ent.*
F. M. Wadley, B. S., *Jr. Ent.*

General Cereal and Forage Insects—Contd.
FIELD STATIONS—Continued.
Missouri—Webster Grove (Hessian fly, billbugs, wheat jointworm, strawworms, and chinch bug):
A. F. Satterthwait, *Assoc. Ent., in charge.*
R. C. Lange, *Asst. Sci. Aid.*
Montana—Billings (grasshoppers and crickets):
Stewart Lockwood, A. B., *Assoc. Ent., in charge.*
R. L. Shotwell, A. B., *Asst. Ent.*
F. T. Cowen, [illegible]. S., *Jr. Ent.*
Oregon—Forest Grove (clover root borer, wireworms, Hessian fly, wheat midge, plant lice, and grasshoppers):
L. P. Rockwood, B. S., *Assoc. Ent., in charge.*
M. M. Reeher, A. B., *Asst. Ent.*
Sadie E. Keen, A. B., *Jr. Ent.*
Pennsylvania—Carlisle (Hessian fly and its parasites):
C. C. Hill, B. S., *Asst. Ent., in charge.*
H. D. Smith, B. S., *Jr. Ent.*
Tennessee—Knoxville (sod webworms and Hessian fly):
G. G. Ainslie, M. S., *Assoc. Ent., in charge.*
Texas—
Dallas (branch of San Antonio, Tex., sta.):
W. A. Baker, B. S., *Asst. Ent.*
San Antonio (sorghum midge, grasshoppers, green bug, and southwestern corn borer):
C. H. Gable, B. S., *Assoc. Ent., in charge.*
L. C. Woodruff, A. B., *Jr. Ent.*
Utah—Salt Lake City (alfalfa weevil and its parasites):
G. I. Reeves, A. B., *Assoc. Ent., in charge.*
T. R. Chamberlin, B. S., *Asst. Ent.*
S. J. Snow, A. B., *Asst. Ent.*
Virginia—Charlottesville (wheat jointworm, corn earworm, and larger corn stalk borer):
W. J. Phillips, Ph. D., *Assoc. Ent., in charge.*
John C. Shiver, B. S., *Jr. Ent.*
H. G. Burt, B. S., *Jr. Ent.*
Washington—Toppenish (branch of Forest Grove, Oreg., sta.):
M. C. Lane, B. S., *Asst. Ent.*

Sugar Cane and Rice Insects:
FIELD STATIONS:
Louisiana—
Crowley (under direction of Assoc. Ent. in charge of New Orleans, La., sta.):
J. W. Ingram, B. S., *Jr. Ent. (rice insects).*

Sugar Cane and Rice Insects—Continued.
FIELD STATIONS—Continued.
Louisiana—Continued.
New Orleans:
T. E. Holloway, B. S., *Assoc. Ent., in charge.*
W. E. Haley, *Prin. Sci. Aid.*

European Corn Borer:
FIELD STATIONS:
France—Hyères, Var (parasites of corn borer):
W. R. Thompson, M. S., D. Sc., *Ent., in charge.*
K. W. Babcock, B. S., *Assoc. Ent.*
H. L. Parker, B. S., D. Sc., *Asst. Ent.*
A. M. Vance, B. S., *Jr. Ent.*
Massachusetts—Arlington:
D. J. Caffrey, B. S., *Ent., in charge of research.*
D. W. Jones, B. S., *Assoc. Ent.*
G. W. Barber, B. S., *Asst. Ent.*
B. E. Hodgson, B. S., *Asst. Ent.*
W. G. Bradley, B. S., *Asst. Ent.*
W. D. Whitcomb, B. S., *Asst. Ent.*
R. A. Vickery, A. M., *Asst. Ent.*
L. H. Worthley, *Admin. in Corn Borer Control.*
R. S. Clifton, *Admin. Asst.*
R. C. Ellis, *Jr. Ent.*
J. C. Silver, B. S., *Jr. Ent.*
C. W. Lewis, B. S., *Prin. Sci. Aid.*
G. P. Babson, *Sr. Sci. Aid.*
T. M. Cannon, *Sci. Aid.*
F. S. Vidler, *Sci. Aid.*
Michigan—Monroe:
Philip Luginbill, A. M., Ph. D., *Assoc. Ent., in charge.*
New York—Silver Creek:
H. N. Bartley, B. S., *Asst. Ent., in charge.*
L. B. Scott, B. S., *Jr. Ent.*
Ohio—
Cleveland:
E. G. Brewer, *Admin. Asst., in charge.*
John H. Harmon, B. S., *Asst. Ent.*
C. O. Larrabee, *Prin. Sci. Aid.*
J. W. Enwright, *Sr. Sci. Aid.*
F. L. Fall, *Sr. Sci. Aid.*
Elyria:
C. E. Towle, *Prin. Sci. Aid.*
Sandusky:
L. H. Patch, B. S., *Jr. Ent.*

COTTON INSECTS

B. R. Coad, *Ent., in charge.*
J. L. Webb, M. S., *Assoc. Ent., acting in charge.*

FIELD STATIONS:
Arizona—Tucson:
T. P. Cassidy, B. S., *Assoc. Ent., in charge.*
A. J. Chapman, B. S., *Jr. Ent.*

FIELD STATIONS—Continued.
Louisiana—Tallulah (lab. hdqrs.):
B. R. Coad, *Ent., in charge.*
J. W. Folsom, Sc. B., Sc. D., *Assoc. Ent.*
F. H. Tucker, *Assoc. Chem.*
G. A. Maloney, *Asst. Ent.*
W. S. Cook, M. A., *Asst. Sci. (pl. morphology).*
F. F. Bondy, B. S., *Asst. Ent.*
M. T. Young, B. S., *Asst. Ent.*
R. C. Gaines, B. S., *Asst. Ent.*
G. L. Smith, B. S., *Jr. Ent.*
V. V. Williams, B. S., *Jr. Ent.*
H. C. Young, B. S., *Jr. Ent.*
W. A. Stevenson, B. S., *Jr. Ent.*
P. L. Glick, A. B., M. S., *Jr. Pl. Quar. Insp.*
G. L. Garrison, *Sr. Sci. Aid.*
South Carolina—Florence:
G. M. Armstrong, M. A., Ph. D., *Agt., in charge.*
F. A. Fenton, M. A., Ph. D., *Ent.*
R. W. Moreland, B. S., *Asst. Ent.*
E. W. Dunnam, B. S., *Asst. Ent.*
J. H. Wallace, *Agt.*
Texas—Brownsville:
T. C. Barber, B. S., *Asst. Ent., in charge.*

FOREST INSECTS

F. C. Craighead, B. A., M. S., Ph. D., *Ent., in charge.*

Western Bark Beetles:
FIELD STATIONS:
California—
Northfork (branch of Palo Alto, Calif., sta.):
J. M. Miller, B. S., *Ent., in charge.*
Palo Alto:
J. M. Miller, B. S., *Ent., in charge.*
H. E. Burke, M. S., Ph. D., *Assoc. Ent.*
F. P. Keen, B. S., *Assoc. Ent.*
H. L. Person, M. S., *Jr. Ent.*
Albert Wagner, *Sr. Sci. Aid.*
E. A. Morrow, *Sr. Sci. Aid.*
W. J. Buckhorn, *Asst. Sci. Aid.*
Idaho—Coeur d'Alene:
J. C. Evenden, B. S., *Assoc. Ent., in charge.*
A. L. Gibson, B. S., *Jr. Ent.*
H. J. Rust, *Sr. Sci. Aid.*
Oregon—Ashland (branch of Palo Alto, Calif., sta.):
J. E. Patterson, *Asst. Ent., in charge.*
Utah—Kanab:
W. D. Edmonston, *Assoc. Ent., in charge.*
George Hofer, *Sr. Sci. Aid.*

Forest-Tree Insects:
FIELD STATIONS:
Massachusetts—Amherst:
H. J. MacAloney, M. F., B. S., *Asst. Ent., in charge.*

Forest-Tree Insects—Continued.
FIELD STATIONS—Continued.
Minnesota—St. Paul:
S. A. Graham, B. S., M. F., Ph. D., *Agt., in charge.*
L. G. Baumhofer, B. S., *Jr. Ent.*
Virginia—East Falls Church:
R. A. St. George, M. S., *Asst. Ent., in charge.*

Forest-Product Insects:
T. E. Snyder, B. A., M. F., Ph. D., *Ent.*

Shade-Tree Insects:
William Middleton, B. A., *Asst. Ent.*

Forest Coleoptera:
A. G. Boving, B. Ph., M. S., Ph. D., *Ent.*

TRUCK-CROP INSECTS

J. E. Graf, A. B., *Sr. Ent., in charge.*
W. H. White, B. S., *Assoc. Ent.*
Mary C. Foley, *Asst. Sci. Illustr.*

Truck-Crop Insecticides and Berry Insects:
C. H. Popenoe, B. S., *Assoc. Ent.*

Taxonomy of Truck-Crop Insects:
F. H. Chittenden, Sc. D., *Ent.*
Doris H. Blake, A. M., *Jr. Ent.*

Miscellaneous Truck-Crop Insects:
FIELD STATIONS:
California—Alhambra:
R. E. Campbell, M. S., *Assoc. Ent., in charge.*
J. C. Elmore, B. S., *Jr. Ent.*
Louisiana—Baton Rouge:
C. E. Smith, M. S., *Asst. Ent., in charge.*
Norman Allen, M. S., *Jr. Ent.*
North Carolina—Chadbourn:
W. A. Thomas, B. S., *Jr. Ent., in charge.*
W. J. Reid, jr., B. S., *Jr. Ent.*
Pennsylvania—Philadelphia:
D. E. Fink, M. S., Ph. D., *Assoc. Ent., in charge.*
Washington—Toppenish:
Frank H. Shirck, M. S., *Jr. Ent.*

Sugar-Beet Leafhopper:
FIELD STATIONS:
Idaho—Twin Falls:
Walter Carter, M. S., *Assoc. Ent., in charge.*
Clement H. Griffith, B. S., *Agt.*
Washington—Toppenish:
Edgar W. Davis, M. S., *Jr. Ent.*

Sweet-Potato Weevil Control:
FIELD STATIONS:
Alabama—Grand Bay:
S. C. Brummitt, *Sr. Sci. Aid, in charge.*
Florida—
Maclenny:
W. M. Prevatt, *Agt., in charge.*
J. W. McGlamery, B. S., *Jr. Ent.*
Sanford:
W. E. Stone, B. S., *Asst. Ent.*
Tampa:
B. L. Boyden, B. A., *Assoc. Ent., in charge.*
C. O. Bare, M. A., *Asst. Ent.*

Sweet-Potato Weevil Control—Continued.
FIELD STATIONS—Continued.
Mississippi—
Bay St. Louis:
F. A. Wright, B. A., *Jr. Ent.*
Biloxi:
K. L. Cockerham, M. S., *Assoc. Ent., in charge.*
Picayune:
O. T. Deen, B. S., *Jr. Ent.*
P. K. Harrison, B. S., *Jr. Ent.*
Waveland:
Troy Thompson, B. S., *Jr. Ent.*

Tomato Weevil:
FIELD STATION:
Mississippi—Gulfport:
M. M. High, B. S., *Assoc. Ent., in charge.*

Pea Aphis:
FIELD STATION:
Wisconsin—Madison:
J. E. Dudley, jr., B. S., *Assoc. Ent., in charge.*
E. M. Searls, B. S., *Sr. Sci. Aid.*
T. E. Bronson, *Jr. Sci. Aid.*

Tobacco Insects:
FIELD STATIONS:
Florida—Quincy (branch of Clarksville, Tenn., sta.):
F. S. Chamberlin, B. S., *Asst. Ent.*
Tennessee—Clarksville:
A. C. Morgan, B. S., *Assoc. Ent., in charge.*
S. E. Crumb, B. S., *Assoc. Ent.*
K. B. McKinney, B. S., *Asst. Ent.*
J. U. Gilmore, B. S., *Asst. Ent.*
J. N. Tenhet, B. S., *Jr. Ent.*

Mexican Bean Beetle:
FIELD STATIONS:
Alabama—Birmingham (branch of Columbus, Ohio, sta.):
L. W. Brannon, B. S., *Jr. Ent., in charge.*
New Mexico—Estancia:
J. R. Douglass, M. S., *Asst. Ent., in charge.*
New York—Geneva (branch of Columbus, Ohio, sta.):
Rodney Cecil, M. S., *Jr. Ent.*
Ohio—Columbus:
N. F. Howard, M. S., *Assoc. Ent., in charge.*
Wallace Colman, A. B., M. S., *Jr. Ent.*

BEE CULTURE

J. I. Hambleton, B. S., *Apicult., in charge.*

Behavior of Bees:
W. J. Nolan, A. M., *Assoc. Apicult.*
J. E. Eckert, M. S., *Assoc. Apicult.*

Bee Diseases:
A. P. Sturtevant, A. B., Ph. D., *Assoc. Apicult.*

Beekeeping Regions:
E. L. Sechrist, B. A., *Assoc. Apicult.*

Physiology of Bees:
J. W. Bulger, M. A., Ph. D., *Asst. Apicult.*

STORED-PRODUCT INSECTS

(Including household insects)

E. A. Back, B. S., Ph. D., *Ent., in charge.*
R. T. Cotton, M. S., Ph. D., *Ent.*
H. B. Bradford, *Chief Sci. Illustr.*
Sibyl McDonald, *Sci. Illustr.*
Marion T. Van Horn, *Jr. Sci. Aid.*
Janet W. Armstrong, *Under Sci. Helper.*

Grain Insects:
FIELD STATIONS:
Georgia—Thomasville:
S. E. McClendon, B. S., *Asst Ent., in charge.*
Maryland—Silver Spring:
Perez Simmons, B. S., *Assoc. Ent., in charge.*
G. W. Ellington, B. S., *Jr. Ent.*

Bean Weevils:
FIELD STATION:
California—Alhambra:
A. O. Larson, M. S., *Assoc. Ent., in charge.*
C. K. Fisher, B. S., *Jr. Ent.*

Dried-Fruit Insects:
FIELD STATION:
California—Fresno:
J. C. Hamlin, M. S., *Assoc. Ent., in charge.*
W. D. Reed, B. S., *Asst. Ent.*

Fumigation Experiments:
FIELD STATION:
Maryland—Silver Spring:
E. A. Vaughan, B. S., *Jr. Ent.*

TROPICAL AND SUBTROPICAL FRUIT INSECTS

A. C. Baker, B. S. A., Ph. D., *Ent., in charge.*
Eva B. Fitzgerald, B. A., *Sci. Illustr.*
Abby Holdridge, *Jr. Sci. Aid.*

Camphor Scale:
FIELD STATION:
Louisiana—New Orleans:
H. K. Plank, B. S., *Assoc. Ent., in charge.*
T. F. Catchings, B. S., *Jr. Ent.*
A. W. Cressman, B. S., *Jr. Ent.*

Greenhouse Insects:
C. A. Weigel, M. S., Ph. D., *Ent., in charge.*
Bessie M. Broadbent, B. S., *Jr. Ent.*
FIELD STATION:
California—Santa Cruz:
C. F. Doucette, B. S., *Jr. Ent., in charge.*

Citrus-Fruit Insects:
FIELD STATION:
Florida—Orlando:
W. W. Yothers, B. S., A. B., *Assoc. Ent., in charge.*
F. R. Cole, A. M., Ph. D., *Asst. Ent., in charge of biol. work.*
O. C. McBride, B. S., M. A., *Jr. Ent.*

Fruit Flies:
FIELD STATIONS:
Canal Zone—Ancon:
James Zetek, A. B., *Assoc. Ent.*
Ignacio Molino, LL. D., *Sci. Aid.*
Hawaii—Honolulu:
H. F. Willard, B. S., *Ent., in charge.*
A. C. Mason, M. S., *Asst. Ent.*

Citrus Thrips:
FIELD STATION:
California—Lindsay:
E. A. McGregor, A. M., *Assoc. Ent., in charge.*

Taxonomy of Scale Insects:
Harold Morrison, A. M., *Ent., in charge.*
Amalia I. Shoemaker, B. S., *Jr. Ent.*
Grace E. Glance, B. S., *Jr. Ent.*

TAXONOMY

S. A. Rohwer, *Ent., in charge.*
Eleanor T. Armstrong, *Sr. Sci. Illustr.*
Francis H. Noyes, *Asst. Sci. Illustr.*
C. S. Menagh, *Sci. Aid.*
Edna E. Sellens, *Jr. Sci. Aid.*
Mildred B. Everhart, *Under Sci. Helper.*
Nettie E. Crocker, *Under Sci. Helper.*
Eunice Myers, *Under Sci. Helper.*
Catherine V. Locke, *Under Sci. Helper.*
Nellie D. McConnell, *Under Sci. Helper.*
Louie H. Richardson, *Under Sci. Helper.*
Janice R. Keyser, *Under Sci. Helper.*
Catherine W. Gates, *Under Sci. Helper.*

Coleoptera:
E. A. Schwarz, Ph. D., *Ent.*
W. S. Fisher, *Asst. Ent.*
H. S. Barber, *Asst. Ent.*

Lepidoptera:
Wm. Schaus, M. A., D. Sc., *Assoc. Ent.*
Carl Heinrich, *Assoc. Ent.*
August Busck, *Assoc. Ent.*

Hymenoptera:
A. B. Gahan, M. S., *Ent.*
R. A. Cushman, *Assoc. Ent.*
L. H. Weld, M. A., *Asst. Ent.*

Diptera:
C. T. Greene, *Asst. Ent.*

Orthoptera and Neuroptera:
A. N. Caudell, M. S., *Assoc. Ent.*

Ectoparasites and Mites:
H. E. Ewing, M. A., Ph. D., *Assoc. Ent.*

INSECTS AFFECTING THE HEALTH OF MAN AND ANIMALS

Under immediate direction of chief of bureau.
J. L. Webb, M. S., *Assoc. Ent.*

Insects Affecting Health of Animals:
FIELD STATIONS:
Texas—
Dallas:
F. C. Bishopp, B. S., *Ent., in charge of inv. of insects affecting health of animals.*
E. W. Laake, B. S., *Assoc. Ent.*
W. E. Dove, B. S., *Asst. Ent.*

Insects Affecting Health of Animals—Contd.
FIELD STATIONS—Continued.
Texas—Continued.
Sonora (branch of Dallas, Tex., sta.):
O. G. Babcock, B. S., *Asst. Ent.*
Uvalde (branch of Dallas, Tex., sta.):
D. C. Parman, B. S., *Asst. Ent.*
Malaria Mosquitoes:
FIELD STATION:
Louisiana—Mound:
W. V. King, B. S., Ph. D., *Ent., in charge of malaria mosquito inv.*
G. H. Bradley, B. S., *Asst. Ent.*
H. E. Wallace, B. S., *Jr. Ent.*
T. E. McNeel, B. S., *Jr. Ent.*

GIPSY MOTH AND BROWN-TAIL MOTH

Headquarters: Melrose Highlands, Mass.
A. F. Burgess, M. S., *Sr. Ent., in charge of moth work.*
S. S. Crossman, B. S., *Ent.*
H. B. Dalton, *Admin. Asst.*
W. N. Dovener, *Chief Sci. Illustr.*

Field and Laboratory Research:
Massachusetts—Melrose Highlands (hdqrs.):
C. W. Collins, M. S., *Ent.*
T. H. Jones, B. S., *Assoc. Ent.*
J. N. Summers, B. S., Ph. D., *Assoc. Ent.*
C. F. W. Muesebeck, B. S., *Assoc. Ent.*
R. T. Webber, *Asst. Ent.*
M. T. Smulyan, B. S., Ph. D., *Asst. Ent.*
C. E. Hood, B. S., *Asst. Ent.*
D. F. Barnes, B. S., *Asst. Ent.*
P. B. Dowden, B. S., *Jr. Ent.*
W. F. Sellers, B. S., *Jr. Ent.*
H. M. Tietz, M. S., *Jr. Ent.*
R. C. Brown, B. S., *Jr. Ent.*
D. L. Parker, B. S., *Jr. Ent.*
S. F. Potts, M. S., *Jr. Ent.*
J. V. Schaffner, jr., *Prin. Sci. Aid.*
R. Wooldridge, *Sr. Sci. Aid.*
H. I. Winchester, *Sr. Sci. Aid.*
J. E. R. Holbrook, *Sr. Sci. Aid.*
J. A. Millar, *Sci. Aid.*
C. L. Griswold, *Asst. Sci. Aid.*

Scouting and Extermination:
Massachusetts—Melrose Highlands (hdqrs.):
H. L. Blaisdell, *Sr. Admin. Asst.*
Saul Phillips, *Chief Sci. Aid.*
L. E. Gibson, B. S., *Prin. Sci. Aid.*
H. N. Bean, *Sr. Sci. Aid.*
F. W. Foster, *Sr. Sci. Aid.*
I. T. Guild, *Sr. Sci. Aid.*
C. A. McIsaac, *Sr. Sci. Aid.*
D. G. Murphy, *Sr. Sci. Aid.*
W. W. Bancroft, *Sr. Sci. Aid.*
W. A. Collins, *Sr. Sci. Aid.*
New Jersey—Bound Brook:
H. A. Ames, *Chief Sci. Aid.*
C. T. Davis, *Sr. Sci. Aid.*

Scouting and Extermination—Continued.
New Jersey—Bound Brook—Continued.
F. W. Graham, *Sr. Sci. Aid.*
W. J. Nestle, *Sr. Sci. Aid.*
J. A. Priest, *Sr. Sci. Aid.*

Quarantine and Inspection:
Massachusetts—Boston (hdqrs.):
D. M. Rogers, *Jr. Admin. Off., in charge.*
F. W. Graves, jr., *Prin. Sci. Aid.*
W. J. Ahearn, *Sci. Aid.*
I. L. Bailey, *Sci. Aid.*
P. S. Coffin, *Sci. Aid.*
C. M. Emerson, *Sci. Aid.*
M. H. Feeney, *Sci. Aid.*
G. J. Galvin, *Sci. Aid.*
D. Harrington, *Sci. Aid.*
J. Keefe, *Sci. Aid.*
F. L. Keene, *Sci. Aid.*
R. W. Kennedy, *Sci. Aid.*
J. F. Keough, *Sci. Aid.*
J. F. McDevitt, *Sci. Aid.*
C. A. Manchester, *Sci. Aid.*
P. H. Meagher, *Sci. Aid.*
G. A. Miller, *Sci. Aid.*
J. F. Murray, *Sci. Aid.*
I. B. Newbegin, *Sci. Aid.*
L. H. Noble, *Sci. Aid.*
J. J. Roach, *Sci. Aid.*
W. Sarsfield, *Sci. Aid.*
W. A. Shinkwin, *Sci. Aid.*
A. C. Ward, *Sci. Aid.*

JAPANESE BEETLE

LABORATORY AND QUARANTINE HEADQUARTERS:
New Jersey—Riverton:
L. B. Smith, B. S., *Ent., in charge.*
B. R. Leach, B. S., *Assoc. Ent.*
J. L. King, M. S., *Assoc. Ent.*
Henry Fox, B. S., Ph. D., *Assoc. Ent.*
W. E. Fleming, B. S., Ph. D., *Asst. Ent.*
G. E. Spencer, B. S., M. S., *Asst. Ent.*
E. R. Van Leeuwen, B. S., *Asst. Ent.*
H. C. Hallock, LL. B., M. S., *Asst. Ent.*
F. W. Metzger, B. S., *Jr. Ent.*
L. B. Parker, B. S., *Jr. Ent.*
C. W. Stockwell, *Sr. Admin. Asst., in charge of quar. and insp.*
R. W. Sherman, B. S., *Jr. Pl. Quar. Insp.*
A. R. Whitcraft, *Sr. Sci. Aid.*

FOREIGN STATIONS (Japanese beetle parasites):
China—Shanghai:
H. A. Jaynes, B. S., *Asst. Ent.*
India—Calcutta:
Curtis P. Clausen, M. S., *Ent., in charge of Oriental parasite work.*
Japan—Yokohama:
T. R. Gardner, B. S., *Asst. Ent.*

INSECT PEST SURVEY

J. A. Hyslop, M. S., *Ent., in charge.*

BIOCLIMATICS

FIELD STATION:
West Virginia—Mineral Wells:
A. D. Hopkins, Ph. D., *Sr. Ent., in charge.*
M. A. Murray, *Asst. Sci. Aid.*

INSECT PATHOLOGY

G. F. White, B. S., Ph. D., M. D., *Path., in charge.*

BUREAU OF BIOLOGICAL SURVEY

E. W. Nelson, M. A., D. Sc., *Chief.*
W. C. Henderson, A. B., LL. B., *Asst. Chief.*
Ada B. Morrison, *Sr. Admin. Asst., Asst. to Chief.*
E. J. Thompson, LL. M., *Sr. Admin. Asst., Asst. in Oper.*
W. H. Cheesman, Ph. D., *Ed.*

GAME AND BIRD RESERVATIONS

E. A. Goldman, *Biol., in charge.*
Lisle Morrison, *Sr. Admin. Asst.*
Frank Bond, B. S., M. A., *Jr. Admin. Off.*
Big-Game Preserves:
Montana—Moiese:
F. H. Rose, *Warden, Mont. Natl. Bison Range.*
H. H. Hoyt, *Asst. Warden, Mont. Natl. Bison Range.*
Nebraska—Valentine:
F. M. Dille, *Warden, Niobrara Reserv.*
North Dakota—Fort Totten:
W. D. Parker, *Warden, Sullys Hill Natl. Game Preserve.*
South Dakota—Hot Springs:
A. P. Chambers, *Warden, Wind Cave Natl. Game Preserve.*
Wyoming—Jackson:
A. P. Nelson, *Warden, Elk Refuge.*
Bird Refuges:
Florida—
Key West:
Ludwig Bethel, *Warden, Key West and Tortugas Keys Reserv.*
Ponce Park:
B. J. Pacetti, *Warden, Mosquito Inlet Reserv.*
St. Petersburg:
H. P. Bennett, *Warden, Tampa Bay group of refuges.*
Georgia—Sapeloe:
H. E. Coffin, D. E., *Warden, Blackbeard Island Reserv.*[2]
J. F. Casey, *Asst. Warden, Blackbeard Island Reserv.*[2]
W' W. Spaulding, *Asst. Warden, Blackbeard Island, Reserv.*
Hawaii—Honolulu:
G. P. Wilder, *Warden, Hawaiian Island Reserv.*
Idaho—Rupert:
C. F. Gleason, B. S., *Warden, Minidoka Reserv.*[3]

Bird Refuges—Continued.
Missouri—Hornersville:
L. L. Bryan, *Warden, Big Lake Reservation, Ark.*
Montana—
Gilman:
M. C. Marvin, *Warden, Willow Creek Reserv.*[3]
Pablo:
F. C. Mayer, *Warden, Pablo Reserv.*[3]
Ronan:
C. H. Dexter, *Warden, Nine Pipe Reserv.*[3]
Nebraska—Minatare:
W. R. Jones, *Warden, North Platte Reserv.*[3]
New Mexico—
Carlsbad:
L. E. Foster, *Warden, Carlsbad Reserv.*[3]
J. P. Middleton, *Asst. Warden, Carlsbad Reserv.*[3]
Lakewood:
H. C. Holcomb, *Asst. Warden, Carlsbad Reserv.*[3]
Oregon—
Burns:
L. E. Hibbard, *Supvr., Lake Malheur Reserv.*
Voltage:
G. M. Benson, *Warden, Lake Malheur Reserv.*
South Dakota—Belle Fourche:
G. M. Wilson, *Warden, Belle Fourche Reserv.*
Utah—Provo:
W. L. Whittemore, B. S., *Warden, Strawberry Valley Reserv.*[3]
Washington—
Conconully:
C. M. Conger, *Warden, Conconully Reserv.*[3]

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[2] Cooperative warden.
[3] Cooperative warden; Reclamation Service employee.

Upper Mississippi River Wild Life and Fish Refuge:
Minnesota—Winona (hdqrs):
W. T. Cox, B. S., *Supt.*
Rudolph Dieffenbach, B. F., *Land Valuation Engr.*
S. B. Hall, A. B., M. F., *Atty.*
H. W. Hicks, B. S., *Jr. For.*
R. M. Rutherford, B. S., *Jr. For.*
Chalmer Jackson, *Transitman.*

FOOD-HABITS RESEARCH

W. L. McAtee, M. A., *Biol., in charge.*

Relation of Native and Introduced Birds and Other Animals to Agriculture:
E. R. Kalmbach, *Biol.*
Remington Kellogg, M. S., *Assoc. Biol.*
J. R. Malloch, A. B., *Assoc. Biol.*
L. L. Buchanan, A. B., *Asst. Biol.*
C. C. Sperry, A. B., *Asst. Biol.*
F. M. Uhler, A. B., *Jr. Biol.*

Economic Investigations of Migratory Birds:
E. R. Kalmbach, *Biol.*
C. C. Sperry, A. B., *Asst. Biol.*

Quail Investigations (in coop. with committee representing Quail Study Fund for Georgia and Florida):
FIELD HEADQUARTERS:
Georgia—
Beachton (hdqrs.):
H. L. Stoddard, *Field Asst., in charge.*
Thomasville:
C. O. Handley, B. S., *Field Asst.*

FUR RESOURCES

F. G. Ashbrook. B. S., *Biol., in charge.*
D. M. Green, *Assoc. Biol.*
FIELD STATION:
New York—Saratoga Springs (Exp. Fur Farm):
K. B. Hanson, B. S., D. V. M., *Assoc. Biol.*

ECONOMIC INVESTIGATIONS

A. K. Fisher, M. D., *Sr. Biol., in charge.*
W. B. Bell, M. S., Ph. D., *Biol.*

Eradication Methods Laboratory:
FIELD HEADQUARTERS:
California—Berkeley:
F. E. Garlough, A. B., *Asst. Biol.*
Colorado—Denver (lab. hdqrs.):
S. E. Piper, B. S., *Assoc. Biol., Ldr.*
E. E. Horn, *Asst. Biol.*
H. E. Williams, *Asst. Biol.*

Destruction of Predatory Animals (in coop. with States):
FIELD HEADQUARTERS:
Arizona—Phoenix:
M. E. Musgrave, *Asst. Admin. Off., Ldr.*

Destruction of Predatory Animals—Contd.
FIELD HEADQUARTERS—Continued.
California—Sacramento:
C. G. Poole, *Asst. Admin. Off., Ldr.*
R. K. Stewart, *Sr. Admin. Asst.*
W. F. Polson, *Jr. Pred. An. Insp.*
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Denver (hdqrs. for Colo.):
S. P. Young, B. S., *Asst. Admin. Off., Ldr.*
Monte Vista:
J. W. Crook, *Sr. Admin. Asst.*
Montrose:
G. M. Trickel, *Sr. Admin. Asst.*
Idaho—
Dubois:
L. S. Twitchell, *Jr. Pred. An. Insp.*
Gooding (hdqrs. for Idaho):
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Shoshone:
Samuel Driggs, *Sr. Admin. Asst.*
Montana—Billings:
R. E. Bateman, *Asst. Admin. Off., Ldr.*
Nevada—
Ely:
A. L. Rasmussen, *Sr. Admin. Asst.*
Reno (hdqrs. for Nev.):
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Chamberlain:
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Rapid City (hdqrs. for S. Dak.):
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Canyon:
O. L. Coleman, *Sr. Admin. Asst.*
Fort Stockton:
J. S. Ligon, *Asst. Admin. Off. (at large).*
San Antonio (hdqrs. for Texas):
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H. W. Dobyns, *Sr. Admin. Asst.*
Wyoming—
Cheyenne (hdqrs. for Wyo.):
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Sheridan:
H. P. Williams, *Sr. Admin. Asst.*

Destruction of Injurious Rodents (in coop. with States):
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Sacramento (hdqrs. for Calif.):
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San Jose:
H. G. Hansen, *Jr. Biol.*
Colorado—Denver:
L. L. Laythe, B. S., *Asst. Biol., Ldr.*
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Idaho—
Boise (hdqrs. for Idaho):
W. E. Crouch, B. S. A., *Asst. Biol., Ldr.*
Pocatello:
T. B. Murray, *Jr. Biol.*
P. T. Quick, *Asst. Biol. Aid.*
Kansas—Manhattan:
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Roy Moore, *Asst. Biol. Aid.*
Montana—Bozeman:
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E. C. Cates, B. S. A., *Jr. Biol.*
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B. B. Richards, *Asst. Biol.*
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J. C. Gatlin, *Asst. Biol. Aid.*
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Roy Fugate, *Jr. Biol.*
A. W. Moore, *Jr. Biol.*
South Dakota—Rapid City:
H. R. Wells, A. B., *Asst. Biol., Ldr.*
Texas—San Antonio:
L. C. Whitehead, B. S. A., *Asst. Biol. Ldr.*
Utah—Salt Lake City:
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Vernon Bailey, *Biol.*
A. H. Howell, *Biol.*
H. C. Oberholser, M. S., Ph. D., *Biol.*
C. H. M. Barrett, *Sr. Sci. Aid.*
May T. Cooke, *Sci. Aid.*
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Habits of Injurious Animals:
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Washington—Puyallup:
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California—Berkeley:
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Maryland—Baltimore:
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Fairbanks:
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Juneau:
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S. L. Taylor, C. E., *Hwy. Engr.*
W. P. Linton, C. E., *Hwy. Bridge Engr.*
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J. A. Glominski, C. E., *Assoc. Hwy. Engr.*
C. T. Nordstrom, B. S. in C. E., *Assoc. Hwy. Engr.*
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C. A. Welton, *Assoc. Hwy. Engr.*
Nebraska—Omaha (hdqrs. for dist.):
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W. H. Lynch, C. E., *Hwy. Engr.*
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B. F. Taylor, B. S. in C. E., *Hwy. Engr.*
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Massachusetts—Boston:
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Montour Falls:
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Syracuse:
W. H. Snyder, *Assoc. Hwy. Engr.*
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C. L. Brown, *Hwy. Engr.*
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A. C. Dunn, C. E., *Assoc. Hwy. Engr.*
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W. N. Frickstad, B. S. in C. E., *Hwy. Engr.*
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F. A. Kittredge, C. E., *Hwy. Engr.*
H. R. Angwin, B. S. in C. E., *Hwy. Bridge Engr.*
W. M. Austin, *Assoc. Hwy. Engr.*
J. Moskowitz, *Assoc. Hwy. Engr.*
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F. L. Klein, Ph. B., *Assoc. Hwy. Bridge Engr.*
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A. C. Clark, B. S. in C. E., *Assoc. Hwy. Engr.*
R. I. Thomas, *Asst. Hwy. Engr.*
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D. W. Lamb, *Transitman for Road Surv.*
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N. F. McCoy, B. S., *Asst. Hwy. Engr.*
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F. H. Flint, B. S. in C. E., *Assoc. Hwy. Engr.*
H. Broberg, B. S. in C. E., *Asst. Hwy. Engr.*
E. F. Strickler, *Chief of Road Surv. Party.*
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E. C. Brown, B. S. in C. E., *Hwy. Engr.*
L. R. Brown, C. E., *Hwy. Engr.*
J. D. Shaw, *Hwy. Engr.*
G. D. Whittle, B. S. in C. E., *Hwy. Bridge Engr.*
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D. G. Evans, B. S. in C. E., *Assoc. Hwy. Engr.*
J. H. Obermuller, *Assoc. Hwy. Engr.*
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C. S. Bruning, *Asst. Hwy. Engr.*
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W. J. Ward, B. S. in C. E., *Jr. Hwy. Engr.*
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A. V. Williamson, *Hwy. Engr.*
L. F. Copeland, B. S. in C. E., *Hwy. Bridge Engr.*
C. P. Capes, *Assoc. Hwy. Engr.*
R. S. Corlew, *Assoc. Hwy. Engr.*
W. H. Curwen, B. S. in C. E., *Assoc. Hwy. Engr.*
L. A. Hamilton, *Assoc. Hwy. Engr.*
B. B. Hauser, B. C. E., *Assoc. Hwy. Engr.*
W. M. Jeffrey, B. S. in C. E., *Assoc. Hwy. Engr.*
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P. C. Carson, *Asst. Hwy. Engr.*
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R. C. Jones, *Asst. Hwy. Engr.*
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H. C. Richardson, B. S. in C. E., *Asst. Hwy. Engr.*
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J. D. Slye, C. E., *Asst. Hwy. Engr.*
J. E. Williams, B. S. in C. E., *Asst. Hwy. Engr.*
P. A. Bean, B. S. in C. E., *Chief of Road Surv. Party.*
M. C. Bowman, *Chief of Road Surv. Party.*
S. J. Caperton, *Chief of Road Surv. Party.*
R. W. Darling, *Chief of Road Surv. Party.*
F. C. Hill, *Chief of Road Surv. Party.*
W. L. Lafferty, *Chief of Road Surv. Party.*
G. F. Leslie, *Chief of Road Surv. Party.*
S. A. Wallace, *Chief of Road Surv. Party.*

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O. E. Gardner, B. S. in C. E., *Jr. Hwy. Bridge Engr.*
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R. H. Naylor, *Hwy. Draftsman.*
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L. C. Rockett, B. S. in C. E., *Assoc. Hwy. Engr.*
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E. E. Kidder, B. S. in C. E., *Hwy. Engr.*
B. W. Matteson, B. S., *Hwy. Engr.*
L. M. Huggins, B. S. in C. E., *Hwy. Bridge Engr.*
R. A. Brown, *Assoc. Hwy. Engr.*
C. W. Cross, B. S. in C. E., *Assoc. Hwy. Engr.*
J. F. English, C. E., *Assoc. Hwy. Engr.*
R. R. Mitchell, B. S. in C. E., *Assoc. Hwy. Engr.*
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J. H. Young, *Assoc. Hwy. Engr.*
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J. S. Scofield, *Chief of Road Surv. Party.*
J. A. West, *Chief of Road Surv. Party.*
K. S. Chamberlain, B. S. in C. E., *Jr. Hwy. Engr.*
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Quincy:
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Louisiana—Franklin:
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Missouri—Cape Girardeau:
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